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# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 30, 1909.*

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[JANUARY, 1909.]

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

(From Field Operations, Bureau of Soils, 1907.)

Soil Survey of Butler County, Alabama. By A. E. Kocher and H. L. Westover. Pp. 33, fig. 1, map.

The Soils of Butte Valley, California. By W. W. Mackie. Pp. 18, plates 4, figs. 2.

Soil Survey of the Colusa Area, California. By Macy H. Lapham, A. T. Sweet, A. T. Strahorn, and L. C. Holmes. Pp. 50, fig. 1, maps 2.

Soil Survey of Robertson County, Texas. By Hugh H. Bennett and Charles F. Shaw. Pp. 54, fig. 1, map.

Soil Survey of Bellingham Area, Washington. By A. W. Mangum and Lewis A. Hurst. Pp. 39, fig. 1, map.

#### REPORTS.

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Report of the Forester for 1908. By Gifford Pinchot. Pp. 44.

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(From Annual Report of the Office of Experiment Stations, 1907.)

Drainage Investigations, 1907-8. By C. G. Elliott, Chief of Drainage Investigations. Pp. 7. (O. E. S. Doc. 1144.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 10, October, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 32, charts 8, figs. 4. (W. B. 399.) Price, 20 cents; \$2.50 per year.

Bulletin of the Mount Weather Observatory. Quarterly. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 71, charts 3, figs. 7. (Vol. 1, Part 4.) Price, 25 cents each part; \$1 a year.

National Monthly Weather Bulletin for November, 1908, reporting temperature and rainfall, with a summary of weather conditions by sections, throughout the United States. No. 30.

Same, for December, 1908. No. 31.

Snow and Ice Bulletins for January 5, 12, 19, 26. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.

GEO. WM. HILL,  
Editor and Chief.

Approved:

JAMES WILSON,  
Secretary of Agriculture.



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Embryonal Adenosarcoma of the Kidney in Swine. By L. Enos Day, Veterinary Inspector in Charge of Branch Pathological Laboratory, Chicago, Ill. Pp. 11, figs. 8.

(From Annual Report of the Office of Experiment Stations, 1907.)

Drainage Investigations, 1907-8. By C. G. Elliott, Chief of Drainage Investigations. Pp. 7. (O. E. S. Doc. 1144.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 10, October, 1908. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 32, charts 8, figs. 4. (W. B. 399.) Price 20 cents, postage 4 cents; \$2.50 per year, postage 60 cents.

Bulletin of the Mount Weather Observatory. Quarterly. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 71, charts 3, figs. 7. (Vol. 1, Part 4.) Price 25 cents each part, postage 6 cents; \$1 a year, postage 25 cents.

National Monthly Weather Bulletin for November, 1908, reporting temperature and rainfall with a summary of weather conditions by sections, throughout the United States. No. 30. Price 25 cents per year; postage 20 cents.

*Same*, for December, 1908. No. 31

Snow and Ice Bulletins for January 5, 12, 19, 26. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents per season; postage 40 cents.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



No. 625.

This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., February 27, 1909.

### MONTHLY LIST OF PUBLICATIONS. [FEBRUARY, 1909.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

(From Field Operations, Bureau of Soils, 1907.)

Soil Survey of the Middlebourne Area, West Virginia. By Thomas A. Caine, E. R. Allen, H. Jennings, and G. W. Tailby, jr. Pp. 32, fig. 1, map.

#### REPORT.

##### NEW.

Report of the Secretary of Agriculture. 1908. (Abridged Edition.) Pp. 100. (Report 87, Office of the Secretary.) Price 15 cents.

#### BULLETINS.

##### NEW.

Index-catalogue of Medical and Veterinary Zoology, Part 22. (Authors P to Pfeilsticker.) By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1625-1718. (Bulletin 39, Part 22, Bureau of Animal Industry.) Price 15 cents.

Index-catalogue of Medical and Veterinary Zoology. Part 23. (Authors: Pfender to Qvortrup.) By Ch. Wardell Stiles, Consulting Zoologist, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1719-1805. (Bulletin 39, Part 23, Bureau of Animal Industry.) Price 15 cents.

The Peach-tree Barkbeetle. By H. F. Wilson, engaged in Deciduous Fruit Investigations. Pp. 18, pls. 2, figs. 3. (Bulletin 68, Part 9, Bureau of Entomology.) Price 5 cents.

The Orange Thrips. By Dudley Moulton, Deciduous Fruit Insect Investigations. Pp. 4, pl. 1. (Bulletin 12, Part 7, Technical Series, Bureau of Entomology.) Price 5 cents.

Biological Studies on Three Species of Aphididæ. By John June Davis, University of Illinois. Pp. 46, figs. 4. (Bulletin 12, Part 8, Technical Series, Bureau of Entomology.) Price 10 cents.

School Gardening and Nature Study in English Rural Schools and in London. By Miss Susan B. Sipe, Collaborator, Bureau of Plant Industry. Pp. 37, figs. 15. (Bulletin 204. Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XX, No. 5, January, 1909. E. W. Allen, Ph. D., Editor. Pp. viii, 401-500. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.



- Seeds and Plants Imported during the Period from April 1 to June 30, 1908. Inventory No. 15: Nos. 22511 to 23322. Pp. 81. (Bulletin 142, Bureau of Plant Industry.) Price 10 cents.
- Principles and Practical Methods of Curing Tobacco. By W. W. Garner, Physiologist, Tobacco Investigations. Pp. 54, figs. 10. (Bulletin 143, Bureau of Plant Industry.) Price 10 cents.
- Index to the Yearbooks of the United States Department of Agriculture, 1901-1905. Prepared by Charles H. Greathouse, Division of Publications. Pp. 166. (Bulletin 9, Division of Publications.) Price 20 cents.
- Soils of the United States, Based upon the Work of the Bureau of Soils to January 1, 1908. By Milton Whitney. Pp. 243. (Bulletin 55, Bureau of Soils.) Price 45 cents.

## REPRINTS.

- Bulletin 67, Bureau of Animal Industry. Necrotic Stomatitis. Price 10 cents.
- North American Fauna 27, Bureau of Biological Survey. The Biological Investigations of the Athabaska-Mackenzie Region. Price 80 cents.
- Bulletin 65, Bureau of Chemistry. Provisional Methods for Analysis of Foods. Adopted by the Association of Official Agricultural Chemists. Price 10 cents.
- Bulletin 55, Bureau of Entomology. The Rearing of Queen Bees. Price 5 cents.
- Bulletin 33, Office of Experiment Stations. The Cotton Plant: Its History, Botany, Chemistry, Culture, Enemies, and Uses. Price 35 cents.
- Bulletin 10, Forest Service. Timber: An Elementary Discussion of the Characteristics and Properties of Wood. Price 10 cents.
- Bulletin 74, Bureau of Plant Industry. The Prickly Pear and other Cacti as Food for Stock. Price 5 cents.
- Bulletin 8, Division of Publications. Index to Farmers' Bulletins 1-250. Price 15 cents.
- Bulletin 29, Office of Public Roads. The Construction of Macadam Roads. Price 10 cents.
- Bulletin 32, Bureau of Soils. The Absorption of Phosphates and Potassium by Soils. Price 10 cents.
- Bulletin 48, Bureau of Statistics. The Cost of Producing Farm Products. Price 15 cents.
- Bulletin 29, Division of Vegetable Physiology and Pathology. Plant Breeding. Price 10 cents.

## CIRCULARS.

## NEW.

- Tuberculosis of Hogs: Its Cause and Suppression. By John R. Mohler, Chief, Pathological Division, and Henry J. Washburn, Assistant Chief. Pp. 32, pls. 4. (Circular 144, Bureau of Animal Industry.)
- Rule 6, Revision 2.—To Prevent the Spread of Foot-and-mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. Pp. 4. (B. A. I. Order 157.)
- Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1908. Pp. 16. (Circular 43, Bureau of Chemistry.)
- House Fleas. By L. O. Howard. Pp. 4, figs. 2. (Circular 108, Bureau of Entomology.)
- The Card Index of Experiment Station Literature. Pp. 2. (Circular 47, revised. Office of Experiment Stations.)
- A Report upon the Drainage of Agricultural Lands in the Kankakee River Valley, Indiana. Prepared under direction of C. G. Elliott, Chief, Drainage Investigations. Pp. 23, figs. 3. (Circular 80, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during January, 1909. Pp. 6. (Doc. 1154, Office of Experiment Stations.)
- Black Locust (*Robinia pseudacacia*). Pp. 4. (Circular 64, revised, Forest Service.)
- Farm Methods of Applying Land Plaster in Western Oregon and Western Washington. By Byron Hunter, Assistant Agriculturist, Farm Management. Pp. 14, figs. 10. (Circular 22, Bureau of Plant Industry.)
- Monthly List of Publications, January, 1909. Pp. 4. (Doc. 624, Division of Publications.)
- Crop Reporter. Vol. 11, No. 2, February, 1909. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.



## REPRINTS.

- Circular 137, Bureau of Animal Industry. The Preservation of Our Native Types of Horses.
- Circular 35, Bureau of Chemistry. Report on Colors: The Solubility and Extraction of Colors and the Color Reactions of Dyed Fiber and of Aqueous and Sulphuric-acid Solutions.
- Circular 23, revised, Office of Experiment Stations. Key to Index of Experiment Station Literature.
- Circular 12, Division of Forestry. Southern Pine, Mechanical and Physical Properties.
- Circular 49, Forest Service. Timber Used in the Mines of the United States in 1905.
- Circular 78, Forest Service. Woods Used for Packing Boxes in New England.
- Circular 80, Forest Service. The Fractional Distillation of Coal-tar Creosote.
- Circular 104, Forest Service. Brush and Tank Pole Treatments.
- Circular 111, Forest Service. Prolonging the Life of Mine Timbers.
- Circular 112, Forest Service. The Analysis and Grading of Creosotes.
- Circular 113, Forest Service. Use of Dead Timber in the National Forests.
- Circular 114, Forest Service. Wood Distillation.
- Circular 134, Forest Service. The Estimation of Moisture in Creosoted Woods.
- Circular 141, Forest Service. Wood Paving in the United States.
- Circular 4, Bureau of Plant Industry. The Treatment of Damping-off in Coniferous Seedlings.
- Circular 9, Bureau of Plant Industry. Texas Root-rot of Cotton: Field Experiments in 1907.
- Circular 12, Bureau of Plant Industry. Dry-land grains.
- Circular 13, Bureau of Plant Industry. The Work of the San Antonio Experiment Farm in 1907.

## FARMERS' BULLETINS.

## NEW.

**The Basket Willow.** By William F. Hubbard, Forest Assistant, with a Summary by C. D. Mell, Assistant Dendrologist, Forest Service. Pp. 47, figs. 23. (Farmers' Bulletin 341.)

This bulletin is a revision of Bulletin 46 of the Forest Service, on the same subject, and contains information as to the distribution and characteristics of the basket willow, its present culture in America, improvements in culture, expenditures and returns of the industry, systems of peeling, with some general remarks on the manufacture of willow ware in the United States.

**The Repair of Farm Equipment.** By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 32, figs. 23. (Farmers' Bulletin 347.)

This bulletin contains lists and illustrations of the tools adapted to repair work on wood, iron, leather, etc., with suggestions for shop facilities, and material required.

**The Dairy Industry in the South.** By B. H. Rawl, Duncan Stuart, and George M. Whitaker, Dairy Division, Bureau of Animal Industry. Pp. 39, figs. 10. (Farmers' Bulletin 349.)

This bulletin contains a report on the markets for dairy products in the South, remarks on the milk supply of southern cities, and suggestions for the improvement and development of the industry.

**The Dehorning of Cattle.** By Richard W. Hickman, Chief of the Quarantine Division, Bureau of Animal Industry. Pp. 16, figs. 6. (Farmers' Bulletin 350.)

The text of this bulletin was included in the Twenty-fourth Annual Report of the Bureau of Animal Industry, and contains directions for using the instrument for dehorning, the management and treatment after dehorning, the prevention of horns growing on young cattle, and remarks on the value of the operation to cattle and to stockmen.

**The Tuberculin Test of Cattle for Tuberculosis.** By John R. Mohler, Chief of the Pathological Division, Bureau of Animal Industry. Pp. 8. (Farmers' Bulletin 351.)

This bulletin is a treatise on the value, origin, nature, application, reliability, etc., of tuberculin, and contains suggestions for the disposal of and indemnity for reacting animals.

## SEPARATES.

## NEW.

**Dermal Mycosis Associated with Sarcoptic Mange in Horses.** By A. D. Melvin, Chief, Bureau of Animal Industry, and John R. Mohler, Chief of the Pathological Division. Pp. 19, pl. 1, figs. 6. (Separate from Annual Report, Bureau of Animal Industry, 1907.)



## REPRINTS.

Separate 37, Part 2, Yearbook 1895. The Meadow Lark and Baltimore Oriole.  
 Separate 66, Yearbook 1893. The Blue Jay and Its Food.  
 Separate 196, Yearbook 1900. Smyrna Fig Culture in the United States.  
 Separate 362, Yearbook 1904. Boys' Agricultural Clubs.  
 Separate 395, Yearbook 1905. Prolonging the Life of Telephone Poles.  
 Separate 416, Yearbook 1906. Birds That Eat Scale Insects.  
 Separate 418, Yearbook 1906. The Game Warden of To-day.  
 Separate 434, Yearbook 1906. National Forests and the Lumber Supply.

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVI, No. 11. November, 1908. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 37, charts 8, figs. 2. (W. B. 402.) Price 20 cents; \$2.50 per year.  
*Same.* No. 12. December, 1908. Pp. 40, charts 9, figs. 3. (W. B. 404.) Price 20 cents; \$2.50 per year.  
 National Monthly Weather Bulletin for January, 1909, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. No. 1.  
 Snow and Ice Bulletins for February 2, 9, 16, 23. These Bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



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No. 630.

United States Department of Agriculture,  
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., April 30, 1909.

MONTHLY LIST OF PUBLICATIONS.

[MARCH-APRIL, 1909.]

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ADVANCE SHEETS, SOIL SURVEY.

- Soil Survey of Winn Parish, Louisiana. By Thomas A. Caine, H. L. Belden, and L. L. Lee. Pp. 37, fig. 1, map.  
Soil Survey of the Easton Area, Maryland. By Hugh H. Bennett, W. E. Tharp, W. S. Lyman, and H. L. Westover. Pp. 47, fig. 1, map.  
Soil Survey of Dutchess County, New York. By Charles N. Mooney and H. L. Belden. Pp. 53, fig. 1, map.  
Soil Survey of the Johnstown Area, Pennsylvania. By Charles J. Mann and Howard C. Smith. Pp. 44, fig. 1, map.  
Soil Survey of Giles County, Tennessee. By Orla L. Ayrs and M. W. Gray. Pp. 23, fig. 1, map.

REPORTS.

NEW.

Durability and Economy in Papers for Permanent Records. A report submitted by H. W. Wiley, Chief, Bureau of Chemistry, and C. Hart Merriam, Chief, Bureau of Biological Survey, Committee on Paper for Departmental Use. Including Paper Specifications, by F. P. Veitch, Chief, Leather and Paper Laboratory, Bureau of Chemistry. Pp. 51, figs. 4. (Office of the Secretary, Report No. 89.) Price 15 cents.

Annual Reports of the Department of Agriculture for the Year Ended June 30, 1908. Pp. 862. (Report of the Secretary with Reports of Heads of the Several Branches of the Department.)

Special Report on Diseases of Cattle. By Drs. Atkinson, Dickson, Harbaugh, Hickman, Law, Lowe, Mohler, Murray, Pearson, Ransom, Salmon, Smith, and Trumbower. Pp. 551, pls. 52, figs. 27. (Revised edition, 1908, Bureau of Animal Industry.) Price \$1.

Reprinted by authority of Congress. No copies for general distribution.

BULLETINS.

NEW.

Revision of the Mice of the American Genus *Peromyscus*. By Wilfred H. Osgood, Assistant, Biological Survey. Prepared under the direction of C. Hart Merriam, Chief of Biological Survey. Pp. 285, pls. 8, figs. 12. (North American Fauna No. 28, Bureau of Biological Survey.) Price 50 cents.

Drug Legislation in the United States. Revised to July 15, 1908. By Lyman F. Kebler, Chief, Division of Drugs. Pp. 343. (Bulletin 98, Revised, Part 1, Bureau of Chemistry.) Price 35 cents.

Chemical Studies of American Barleys and Malts. By J. A. LeClerc, Physiological Chemist, and Robert Wahl, Special Agent. Pp. 75, frontispiece. (Bulletin 124, Bureau of Chemistry.) Price 20 cents.



- The Feeding Value of Cereals, as Calculated from Chemical Analyses. By Joseph S. Chamberlain, Chief, Cattle-food and Grain Laboratory, Miscellaneous Division, in Collaboration with the Bureau of Plant Industry. Pp. 64, tables 46. (Bulletin 120, Bureau of Chemistry.) Price 10 cents.
- Economic Loss to the People of the United States Through Insects That Carry Disease. By L. O. Howard, Entomologist and Chief of Bureau. Pp. 40. (Bulletin 78, Bureau of Entomology.) Price 10 cents.
- Irrigation in the Sacramento Valley, California. By Samuel Fortier, Chief of Irrigation Investigations, Assisted by O. W. Bryant, J. E. Roadhouse, A. E. Wright, and J. H. Barber. Pp. 99, figs. 24, map. (Bulletin 207, Office of Experiment Stations.) Price 15 cents.
- The Influence of Muscular and Mental Work on Metabolism and the Efficiency of the Human Body as a Machine. By Francis G. Benedict, Director, Nutrition Laboratory, Carnegie Institution of Washington, and Thorn M. Carpenter, Chemist, Nutrition Laboratory, Carnegie Institution of Washington. Pp. 100, figs. 3. (Bulletin 208, Office of Experiment Stations.) Price 15 cents.
- Irrigation in Oregon. By John H. Lewis, State Engineer, Assisted by Percy A. Cupper. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 67, pl. 1, figs. 8. (Bulletin 209, Office of Experiment Stations.) Price 15 cents.
- Irrigation in South Dakota. By Samuel H. Lea, State Engineer. Under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 60, pl. 1. (Bulletin 210, Office of Experiment Stations.) Price 10 cents.
- Experiment Station Record, Vol. XX, No. 6, February, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 501-600.
- Same, No. 7, March, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 601-700.
- Same, No. 8, March, 1909 (abstract number). E. W. Allen, Ph. D., Editor. Pp. x, 701-800. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

- Pineapple Growing in Porto Rico. By H. C. Henricksen and M. J. Iorns, Horticulturists, Porto Rico Agricultural Experiment Station. Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 42, pls. 6. (Bulletin 8, Porto Rico Agricultural Experiment Station.) Price 15 cents.
- Accessions to the Department Library, October-December, 1908. Pp. 61. (Bulletin 70, Library.) Price 10 cents.
- Apple Blotch. A Serious Disease of Southern Orchards. By W. M. Scott, Pathologist, and James B. Borer, Assistant Pathologist, Fruit Disease Investigation. Pp. 28, pls. 6. (Bulletin 144, Bureau of Plant Industry.) Price 15 cents.
- Vegetation Affected by Agriculture in Central America. By O. F. Cook, Biologist, Bureau of Plant Industry. Pp. 30, pls. 8. (Bulletin 145, Bureau of Plant Industry.) Price 15 cents.
- The Superiority of Line Breeding over Narrow Breeding. By O. F. Cook, Biologist, Bureau of Plant Industry. Pp. 45. (Bulletin 146, Bureau of Plant Industry.) Price 10 cents.
- Suppressed and Intensified Characters in Cotton Hybrids. By O. F. Cook, Biologist, Bureau of Plant Industry. Pp. 27. (Bulletin 147, Bureau of Plant Industry.) Price 15 cents.
- Seeds and Plants Imported during the Period from July 1 to September 30, 1908. Inventory No. 16, Nos. 23323 to 23744. Pp. 37. (Bulletin 148, Bureau of Plant Industry.) Price 10 cents.
- The Isolation of Harmful Organic Substances from Soils. By Oswald Schreiner and Edmund C. Shorey. Pp. 53, pls. 4. (Bulletin 53, Bureau of Soils.) Price 15 cents.
- The Role of Oxidation in Soil Fertility. By Oswald Schreiner and Howard S. Reed. Pp. 52. (Bulletin 56, Bureau of Soils.) Price 10 cents.
- The Cost of Producing Minnesota Farm Products, 1902-1907. By Edward C. Parker and Thomas P. Cooper, Special Agents, Bureau of Statistics. Pp. 69, pls. 2, fig. 1. (Bulletin 73, Bureau of Statistics.) Price 15 cents.

#### CIRCULARS.

#### NEW.

- The Adulteration and Misbranding of the Seeds of Alfalfa, Red Clover, Orchard Grass, and Kentucky Bluegrass. Pp. 5. (Circular 28, Office of the Secretary.)
- Amendment to Food Inspection Decisions No. 76 and No. 89, Relating to the Use in Foods of Benzoate of Soda. Pp. 3. (Food Inspection Decision 104, Office of the Secretary.)
- The Labeling of Canned Salmon and White Fish. Pp. 2. (Food Inspection Decision 105, Office of the Secretary.)
- Amendment to Food Inspection Decision 77 (A Definition of the Terms "Batch" and "Mixtures" as used therein). P. 1. (Food Inspection Decision 106, Office of the Secretary.)
- Decision of the Attorney-General in regard to the Legality of the Referee Board. Pp. 6. (Food Inspection Decision 107, Office of the Secretary.)
- Misbranding of Canned Corn (Underweight). Pp. 2. (Notice of Judgment No. 38, Food and Drugs Act, Office of the Secretary.)
- Misbranding of Corn and Beans, Canned Corn, Butter, and Adulteration of Water. Pp. 7. (Notice of Judgment Nos. 39-42, Food and Drugs Act, Office of the Secretary.)
- Misbranding of Canned Peas, Meal, Maple Sirup, Adulteration and Misbranding of Whisky, Adulteration of Eggs. Pp. 11. (Notice of Judgment Nos. 43-47, Food and Drugs Act, Office of the Secretary.)
- Adulterated and Misbranded Vanilla Extract, Misbranding of Coffee. Pp. 4. (Notice of Judgment Nos. 48-49, Food and Drugs Act, Office of the Secretary.)
- Adulteration of Coffee. Pp. 2. (Notice of Judgment No. 50, Food and Drugs Act, Office of the Secretary.)
- Misbranding Bottled Beer and Canned Corn. Pp. 8. (Notice of Judgment Nos. 51-53, Food and Drugs Act, Office of the Secretary.)
- Legal Standards for Dairy Products. (Revised to February 1, 1909.) Pp. 2. (Circular 74, revised, Bureau of Animal Industry.)
- Infectious Anemia or Swamp Fever of Horses. By John R. Mohler, Chief of the Pathological Division. Pp. 4. (Circular 138, Bureau of Animal Industry.)
- The Score-card System of Dairy Inspection. By Clarence B. Lane, Senior Dairyman, Dairy Division, and George M. Whitaker, Assistant Dairyman, Dairy Division. Pp. 32, figs. 3. (Circular 139, Bureau of Animal Industry.)
- The Egg Trade of the United States. By Milo M. Hastings, Scientific Assistant, Animal Husbandry Office. Pp. 34, figs. 2. (Circular 140, Bureau of Animal Industry.)
- Fishy Flavor in Butter. By L. A. Rogers, Bacteriologist, Dairy Division. Pp. 20, figs. 2. (Circular 146, Bureau of Animal Industry.)



- A Practical Demonstration of a Method for Controlling the Cattle Tick. By W. D. Hunter and J. D. Mitchell, of the Bureau of Entomology. Pp. 4. (Circular 148, Bureau of Animal Industry.)
- Regulations for the Certification of Associations of Breeders of Purebred Live Stock and Books of Record of Pedigrees. Amendment of Certification. P. 1. (Amendment 7 to B. A. I. Order 136, Bureau of Animal Industry.)
- Amendment Modifying Regulations 11 to 18, inclusive, Relating to the Prevention of the Spread of Splenic Fever of Cattle, and Revoking Amendment 3 to B. A. I. Order 143. Pp. 8. (Amendment 4 to B. A. I. Order 143, Bureau of Animal Industry.)
- Amendment 3 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. P. 1. (Amendment 3 to B. A. I. Order 146, Bureau of Animal Industry.)
- Amendment to Paragraph 1 of Section 2 of Regulation 22, Governing the Use of Preservatives in Establishments where Inspection is Maintained. P. 1. (Amendment 2 to B. A. I. Order 150, Bureau of Animal Industry.)
- Amendment 1 to Rule 6, Revision 2.—To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. P. 1. (Amendment 1 to B. A. I. Order 157, Bureau of Animal Industry.)
- Amendment 2 to Rule 6, Revision 2.—To Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. Pp. 3. (Amendment 2 to B. A. I. Order 157, Bureau of Animal Industry.)
- Rule 1, Revision 4.—To Prevent the Spread of Splenic Fever in Cattle. Pp. 11. (B. A. I. Order 158, Bureau of Animal Industry.)
- Regulations Concerning the Importation of Hay and Straw from the Island of Jamaica, British West Indies. P. 1. (B. A. I. Order 159, Bureau of Animal Industry.)
- Rule 7. Revoking the Quarantine to Prevent the Spread of Foot-and-Mouth Disease in Cattle, Sheep, Other Ruminants, and Swine. P. 1. (B. A. I. Order 160, Bureau of Animal Industry.)
- Regulations for the Protection of Deer in Alaska. P. 1. (Circular 68, Bureau of Biological Survey.)
- Minor Border Importations. Cocoa Butter Substitutes. Guaranty on Imported Products. Use of the word "Compound" in names of Drug Products. Labeling of Sardines. Pp. 6. (Food Inspection Decisions, 60-64, Bureau of Chemistry.)
- List of Station Publications Received by the Office of Experiment Stations during February, 1909. Pp. 5. (Doc. 1159, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during March, 1909. Pp. 7. (Doc. 1165, Office of Experiment Stations.)
- Practical Assistance to Farmers, Lumbermen, and Other Owners of Forest Lands. Pp. 5. (Circular 21 revised, Forest Service.)
- Instructions to Engineers of Timber Tests. Pp. 56, figs. 9. (Circular 38, revised, Forest Service.)
- Red Oak (*Quercus rubra*). Pp. 3. (Circular 58, revised, Forest Service.)
- Basswood (*Tilia americana*). Pp. 3. (Circular 63, revised, Forest Service.)
- Boxelder (*Acer negundo*). Pp. 3. (Circular 86, revised, Forest Service.)
- Coffeetree (*Gymnocladus dioica*). Pp. 4. (Circular 91, revised, Forest Service.)
- Yellow Poplar (*Liriodendron tulipifera*). Pp. 4. (Circular 93, revised, Forest Service.)
- Forest Planting in Western Kansas. By R. S. Kellogg, Assistant Forester. Pp. 51, figs. 5. (Circular 161, Forest Service.)
- Alfalfa in Cultivated Rows for Seed Production in Semiarid Regions. By Charles J. Brand, Physiologist, and J. M. Westgate, Agronomist, Bureau of Plant Industry. Pp. 23, figs. 3. (Circular 24, Bureau of Plant Industry.)
- The Cost of Clearing Logged-off Land for Farming in the Pacific Northwest. By Harry Thompson, Expert, Office of Farm Management. Pp. 16, figs. 9. (Circular 25, Bureau of Plant Industry.)
- Lime-Sulphur Mixtures for the Summer Spraying of Orchards. By W. M. Scott, Pomologist in charge of Orchard Spraying Experiments, Fruit Disease Investigations. Pp. 17, figs. 2. (Circular 27, Bureau of Plant Industry.)
- Clover-Seed Production in the Willamette Valley, Oregon. By Byron Hunter, Assistant Agriculturist, Office of Farm Management. Pp. 15, figs. 2. (Circular 28, Bureau of Plant Industry.)
- Experiments with Egyptian Cotton in 1908. By Thomas H. Kearney, Physiologist, and William A. Peterson, Farm Superintendent. Pp. 22. (Circular 29, Bureau of Plant Industry.)
- Organization of Department of Agriculture, 1909. (Revised to February 15, 1909.) Pp. 45. (Circular 1, Division of Publications.)
- Publications for Free Distribution. (Revised to March 1, 1909.) Pp. 45. (Circular 2, Division of Publications.)
- Publications for Sale. (Revised to December 1, 1908.) Pp. 128. (Circular 3, Division of Publications.)
- Farmers' Bulletin Subject Index. (Revised to include Bulletin 351.) Pp. 34. (Circular 4, Division of Publications.)
- Monthly List of Publications, February, 1909. Pp. 4. (Doc. 625, Division of Publications.)
- Monthly List of Publications, March, 1909 (foreign). Pp. 4. (Doc. 627, Division of Publications.)
- The Twenty-eight Hour Law. Pp. 6. (Circular 14, Office of the Solicitor.)
- Same. Pp. 13. (Circular 15, Office of the Solicitor.)
- Same. Pp. 2. (Circular 16, Office of the Solicitor.)
- Same. Pp. 5. (Circular 17, Office of the Solicitor.)
- Crop Reporter. Vol. 11, No. 3, March, 1909. Pp. 17-24. (Bureau of Statistics.)
- Same. No. 4, April, 1909. Pp. 25-28. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## FARMERS' BULLETINS.

## NEW.

- The Nevada Mouse Plague of 1907-8. By Stanley E. Piper, Assistant, Biological Survey. Pp. 23, figs. 9. (Farmers' Bulletin 352.)
- This bulletin contains accounts of the recent mouse plague in Humboldt Valley, Nevada, a threatened plague in Carson Valley, the origin and progress of such plagues, gives directions for repressive measures, and enumerates a number of natural enemies of field mice.
- Experiment Station Work, L. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 14. (Farmers' Bulletin 353.)
- CONTENTS: Commercial clover seed—Dodder in alfalfa seed—Growing potatoes under straw—Hens versus incubators—Preparing fowls for market—Preservation of eggs—The mound-building prairie ant—Coagulation of milk in cheese making—Effect of alkali on cement structures—Silo construction—A cheap and efficient sterilizer—A cheap and efficient ice box—The power laundry for the farm.
- Onion Culture. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 36, figs. 20. (Farmers' Bulletin 354.)
- This bulletin is published to supersede Farmers' Bulletin 39 on the same subject and discusses some late methods of growing onions, including a short treatise on the Bermuda onion industry.



**A Successful Poultry and Dairy Farm.** By W. J. Spillman. Pp. 40, figs. 7. (Farmers' Bulletin 355.)  
This Bulletin describes the methods of conducting an 80-acre dairy and poultry farm in western Washington and marketing the products.

#### SEPARATES.

#### NEW.

**A Study of the Methods of Canning Meats, with Reference to the Proper Disposal of Defective Cans.** By C. N. McBride, Bacteriologist, Biochemic Division. Pp. 18, fig. 1. (Reprint from An. Rpt. B. A. I., 1907.)  
**Report of a Commission on Certain Features of the Federal Meat-Inspection Regulations.** Pp. 361-373. (Reprint from An. Rpt. B. A. I., 1907.)  
**Courses in Agriculture, Horticulture, and Allied Subjects.** By F. W. Rane, Professor of Horticulture, New Hampshire College of Agriculture and Mechanic Arts. Pp. 77-89. (Reprint from Office of Experiment Stations Bulletin 164.)

#### PUBLICATIONS OF THE WEATHER BUREAU.

**Report of the Temperatures and Vapor Tensions of the United States Reduced to a Homogeneous System of 24 Hourly Observations for the 33-Year Interval, 1873-1905.** By Frank H. Bigelow, Professor of Meteorology, in Charge of the Record Division. Prepared under the direction of Willis L. Moore, Chief of Weather Bureau. Pp. 302, tables 7, charts 4. (Bulletin 8, Weather Bureau.) Price \$1.15.  
**Bulletin of the Mount Weather Observatory.** Quarterly. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 54, figs. 4, charts 3. (Vol. II, Part 1.) Price 25 cents each part, postage 6 cents; \$1 a year.  
**Monthly Weather Review, Vol. XXXVII, No. 1, January, 1909.** Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 42, charts 11, figs. 13. (W. B. 407.) Price 20 cents; \$2.50 per year.  
**National Monthly Weather Bulletin for February, 1909,** reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. No. 2. Price 25 cents per year.  
**Snow and Ice Bulletins for March 2, 9, 16, 23, 30.** These Bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price 25 cents per season.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*





This circular will be sent regularly to all who apply for it.

No. 652.

## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *June 30, 1909.*

## MONTHLY LIST OF PUBLICATIONS.

[MAY-JUNE, 1909.]

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

#### ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of Lamar County, Alabama. By E. R. Allen, assisted by W. L. Lett, of the Alabama Department of Agriculture and Industries. Pp. 32, fig. 1, map. (Field Operations, Bureau of Soils, 1908.)

Soil Survey of Overton County, Tennessee. By Orla L. Ayrs and D. H. Hill. Pp. 24, fig. 1, map. (Field Operations, Bureau of Soils, 1908.)

#### REPORTS.

##### NEW.

The Influence of Sodium Benzoate on the Nutrition and Health of Man. Pp. 784, charts 4. By Ira Remsen and associates, Referee Board of Consulting Scientific Experts. (Report 88, Office of the Secretary.) Price \$1.

Progress of the Beet-sugar Industry in the United States in 1908. Pp. 74. (Report 90, Office of the Secretary.) Price 10 cents.

#### BULLETINS.

##### NEW.

A Biometrical Study of Egg Production in the Domestic Fowl. I. Variation in Annual Egg Production. By Raymond Pearl, Expert in Poultry Breeding, Bureau of Animal Industry, and Frank M. Surface, Associate Biologist, Maine Agricultural Experiment Station. Pp. 80, figs. 17. (Bulletin 110, Part 1, Bureau of Animal Industry.) Price 15 cents.

The Loco-weed Disease of the Plains. By C. Dwight Marsh, Expert, Poisonous Plant Investigations, Bureau of Plant Industry. Pp. 130, pls. 11, figs. 29. (Bulletin 112, Bureau of Animal Industry.) Price 35 cents.

Filtration Experiments with *Bacillus Cholerae Suis*. By C. N. McBride, Senior Bacteriologist, Bio-chemic Division. Pp. 31, fig. 1. (Bulletin 113, Bureau of Animal Industry.) Price 10 cents.

The Influence of Acidity of Cream on the Flavor of Butter. By L. A. Rogers, Bacteriologist, Dairy Division, and C. E. Gray, formerly Chemist, Dairy Division. Pp. 22. (Bulletin 114, Bureau of Animal Industry.) Price 10 cents.

The Brown Rat in the United States. By David E. Lantz, Assistant Biological Survey. Pp. 54, pls. 3, figs. 4. (Bulletin 33, Biological Survey.) Price 15 cents.

Proceedings of the Twenty-fifth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 12-16, 1908. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 248, figs. 6. (Bulletin 122, Bureau of Chemistry.) Price 40 cents.



- Metabolism of Organic and Inorganic Phosphorus: A Feeding Experiment Using Phytin and Sodium Phosphates. By F. C. Cook, Physiological Chemist. Pp. 63, pls. 3. (Bulletin 123, Bureau of Chemistry.) Price 15 cents.
- The Canning of Peas, Based on Factory Inspection and Experimental Data. By A. W. Bitting, Food Inspector, Bureau of Chemistry. Pp. 32, figs. 6. (Bulletin 125, Bureau of Chemistry.) Price, 10 cents.
- The Hop Flea-beetle. By F. H. Chittenden, In Charge of Truck Crop and Special Insect Investigations. Pp. 71-92, pls. 3, figs. 8. (Bulletin 66, Part 6, Bureau of Entomology.) Price 10 cents.
- Bee Keeping in Massachusetts. By Burton N. Gates, Expert in Apiculture. Pp. 81-109, figs. 2. (Bulletin 75, Part 7, Bureau of Entomology.) Price 5 cents.
- Fumigation Investigations in California. By R. S. Woglum, Special Field Agent (Chemical work by Miscellaneous Division, Bureau of Chemistry). Pp. 73, figs. 28. (Bulletin 79, Bureau of Entomology.) Price 15 cents.
- The Codling Moth in the Ozarks. By E. L. Jenne, Engaged in Deciduous Fruit Insect Investigations. Pp. 32, figs. 8. (Bulletin 80, Part 1, Bureau of Entomology.) Price 10 cents.
- The Cigar Case-bearer. By A. G. Hammar, Engaged in Deciduous Fruit Insect Investigations. Pp. 33-44, pls. 2, figs. 4. (Bulletin 80, Part 2, Bureau of Entomology.) Price 10 cents.
- Irrigation in Kansas. By Don H. Bark, under direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 28, pls. 2. (Bulletin 211, Office of Experiment Stations.) Price 10 cents.
- Irrigation in the State of Washington. By O. L. Waller, Professor of Civil Engineering in the State College of Washington. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 64, pl. 1. (Bulletin 214, Office of Experiment Stations.) Price 10 cents.
- Irrigation in New Mexico. By Vernon L. Sullivan, Territorial Engineer. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 42, fig. 1, map. (Bulletin 215, Office of Experiment Stations.) Price 15 cents.
- Experiment Station Record, Vol. XX, No. 9, April, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 801-900. Same, No. 10, May, 1909. E. W. Allen, Ph. D., Editor. Pp. x, 901-1000. (No single copies of Vol. XX sold.)
- Same, No. 11, June, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 1001-1100. (No single copies of Vol. XX sold.)
- The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.
- NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.
- American Medicinal Barks, By Alice Henkel, Assistant, Drug-Plant Investigations. Pp. 59, figs. 45. (Bulletin 139, Bureau of Plant Industry.) Price 15 cents.
- The Florida Velvet Bean and Its History. By Katherine Stephens Bort, Laboratory Aid, Forage Crop Investigations. Pp. 25-32, pls. 3, fig. 1. (Bulletin 141, Part 3, Bureau of Plant Industry.) Price 10 cents.
- The Importance of Broad Breeding in Corn. By G. N. Collins, Assistant Botanist. Pp. 33-44. (Bulletin 141, Part 4, Bureau of Plant Industry.) Price 5 cents.
- The Wild Alfalfas and Clovers of Siberia, with a Prospective View of the Alfalfas of the World. By N. E. Hansen, Agricultural Explorer of Department of Agriculture. Pp. 31, pl. 1. (Bulletin 150, Bureau of Plant Industry.) Price 10 cents.
- Fruits Recommended by the American Pomological Society for Cultivation in the Various Sections of the United States and Canada. Revised by a Committee of the American Pomological Society, W. H. Ragan, Chairman. Pp. 69. (Bulletin 151, Bureau of Plant Industry.) Price 15 cents.
- Seeds and Plants Imported during the Period from October 1 to December 31, 1908: Inventory No. 17; Nos. 23745 to 24429. Pp. 58. (Bulletin 153, Bureau of Plant Industry.) Price 10 cents.
- The Preservation of Iron and Steel. By Allerton S. Cushman, Assistant Director, Office of Public Roads. Pp. 40, pls. 4. (Bulletin 35, Office of Public Roads.) Price 10 cents.

#### REPRINTS.

- Bulletin 108, Bureau of Animal Industry, Feeding for Meat Production. Price 10 cents.
- Bulletin 78, revised, Bureau of Entomology, Economic Loss to the People of the United States through Insects that Carry Disease. Price 10 cents:

#### CIRCULARS.

#### NEW.

- Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 20. (Circular 21, Second revision, Office of the Secretary.)
- Test of Roberts's So-called Anti-abortion Serum. P. 1. (Circular 29, Office of the Secretary.)
- Food Inspection Decisions 93-95. 93—Amendment to Regulation 34. 94—The Labeling of Medicinal and Table Waters. 95—The Use of Neutral Spirits Distilled from Beet Sugar Molasses in the Preparation of Whisky Compounds and Imitation Whiskies. Pp. 4. (Office of the Secretary.)
- Importation of Coffee, P. 1. (Food Inspection Decision 108, Office of the Secretary.)
- Notice of Judgment Nos. 54-55, Food and Drugs Act. 54—Misbranding of a drug (Muco-solvent). 55—Misbranding of coffee (As to geographical source). Pp. 4. (Office of the Secretary.)
- Notice of Judgment Nos. 56-57, Food and Drugs Act. 56—Misbranding of lemon extract (As to presence of oils of lemon). 57—Misbranding of canned apples (Underweight). Pp. 4. (Office of the Secretary.)
- Notice of Judgment Nos. 58-63, Food and Drugs Act. 58—Adulteration and misbranding of oats (As to presence of barley). 59—Adulteration and misbranding of lithia water (Basic lithia water). 60—Adulteration and misbranding of buckwheat flour (As to presence of wheat and maize). 61—Misbranding of vinegar (As to location and name of manufacturer). 62—Same. 63—Misbranding of canned corn (Underweight). Pp. 12. (Office of the Secretary.)
- Notice of Judgment Nos. 64-65, Food and Drugs Act. 64—Misbranding of canned apples (Underweight). 65—Misbranding of beer (As to quantity of alcohol). Pp. 4. (Office of the Secretary.)
- Notice of Judgment Nos. 66-67, Food and Drugs Act. 66—Misbranding and Adulteration of Stock Feed (As to presence of ground corneobs, etc.). 67—Misbranding of Butter (As to location and name of manufacturer). Pp. 5. (Office of the Secretary.)



- Notice of Judgment No. 68, Food and Drugs Act. Misbranding of Whisky (As to presence of whisky). Pp. 6. (Office of the Secretary.)
- The Origin of the Recent Outbreak of Foot-and-mouth Disease in the United States. By John R. Mohler, Chief of the Pathological Division, Bureau of Animal Industry, and Milton J. Rosenau, Director Hygienic Laboratory, United States Public Health and Marine-Hospital Service. Pp. 29, fig. 1. (Circular 147, Bureau of Animal Industry.)
- Amendment 2, Rule 2, Revision 2.—To prevent the Spread of Scabies in Cattle. Pp. 1. (Amendment 2 to B. A. I. Order 152, Bureau of Animal Industry.)
- Amendment 1, Rule 1, Revision 4.—To prevent the Spread of Splenetic Fever in Cattle. Pp. 3. (Amendment 1 to B. A. I. Order 158, Bureau of Animal Industry.)
- Revocation of Regulations concerning the Importation of Hay and Straw from the Island of Jamaica, British West Indies. P. 1. (Order 162, Bureau of Animal Industry.)
- Key to Animals on Which Wolf and Coyote Bounties are often Paid. By Vernon Bailey, Assistant in Charge of Geographic Distribution. Pp. 3. (Circular 69, Bureau of Biological Survey.)
- The Striped Cucumber Beetle (*Diabrotica vittata* Fab.). By F. H. Chittenden, in Charge of Truck Crop and Special Insect Investigations. Pp. 8, figs. 2. (Circular 31, revised, Bureau of Entomology.)
- List of Publications of the Bureau of Entomology. Compiled by Mabel Colcord, Librarian. Pp. 29. (Circular 76, revised to May 1, 1909. Bureau of Entomology.)
- The Wheat Strawworm (*Isosoma grande* Riley). By F. M. Webster, in Charge of Cereal and Forage Plant Insect Investigations, and Geo. I. Reeves, Assistant in Cereal and Forage Plant Insect Investigations. Pp. 15, figs. 13. (Circular 106, Bureau of Entomology.)
- Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 21. (Circular 68, revised, Office of Experiment Stations.)
- The American System of Agricultural Education. By A. C. True and Dick J. Crosby, of the Office of Experiment Stations. Pp. 27, pls. 9. (Circular 83, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during April, 1909. Pp. 6. (Doc. 1174, Office of Experiment Stations.)
- Constitution and By-laws of the American Association of Farmers' Institute Workers. Pp. 4. (Doc. 1179, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during May, 1909. Pp. 6. (Doc. 1181, Office of Experiment Stations.)
- Exports and Imports of Forest Products, 1908. Compiled by A. H. Pierson, Forest Assistant. Pp. 29. (Circular 162, Forest Service.)
- Practical Assistance to Owners of Forest Land and to Tree Planters. Pp. 7. (Circular 165, Forest Service.)
- Improvement of the Oat Crop. By C. W. Warburton, Agronomist in Charge of Oat Investigations. Pp. 10. (Circular 30, Bureau of Plant Industry.)
- Notes on the Number and Distribution of Native Legumes in Nebraska and Kansas. By Joseph Allen Warren, Assistant Agriculturist, Office of Farm Management. Pp. 9. (Circular 31, Bureau of Plant Industry.)
- The Necessity for New Standards of Hop Valuation. By W. W. Stockberger, Pharmacognocist, Drug-Plant Investigations. Pp. 11. (Circular 33, Bureau of Plant Industry.)
- American Ginseng. Pp. 3, figs. 2. (Doc. 477, Bureau of Plant Industry.)
- Publications of the Bureau of Plant Industry. Pp. 10. (Doc. 483, Bureau of Plant Industry.)
- Monthly List of Publications, March-April, 1909. Pp. 4. (Doc. 630, Division of Publications.)
- Progress Reports of Experiments in Dust Prevention, Road Preservation, and Road Construction. Pp. 23. (Circular 90, Office of Public Roads.)
- The Twenty-eight Hour law. Pp. 4. (Circular 18, Office of the Solicitor.)
- The Twenty-eight Hour law. Pp. 3. (Circular 19, Office of the Solicitor.)
- Crop Reporter, Vol. 11, No. 5, May, 1909. Pp. 29-32. (Bureau of Statistics.)
- Crop Reporter, Vol. 11, No. 6, June, 1909. Pp. 33-40. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### FARMERS' BULLETINS.

##### NEW.

- Peanuts. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 40, figs. 20. (Farmers' Bulletin 356.)
- This bulletin is issued to supersede Farmers' Bulletin 25 on the same subject. It describes the climatic and soil requirements of the peanut, methods of cultivation, machinery for planting, harvesting, etc., varieties and uses, its importance as a farm crop, and its diseases and treatment.
- Methods of Poultry Management at the Maine Agricultural Experiment Station. Compiled by Raymond Pearl, Expert in Poultry Breeding, Bureau of Animal Industry. Pp. 39, figs. 10. (Farmers' Bulletin 357.)
- This bulletin is mainly a revision of Bulletin 90 of the Bureau of Animal Industry and includes directions for the selection of breeding stock, raising chickens by natural and artificial methods, feeding on the range and for market, and the building of poultry houses, trap nests, etc.
- A Primer of Forestry. Part 2: Practical Forestry. By Gifford Pinchot, Forester. Pp. 48, figs. 25. (Farmers' Bulletin 358.)
- The matter in this bulletin was published in 1906 as Part 2 of Bulletin 24 of the Forest Service and contains treatises on forest management, methods of lumbering, the relations of forests to climate and stream flow, with notes on "Forestry at Home and Abroad."
- Canning Vegetables in the Home. By J. F. Breazeale, Bureau of Chemistry. Pp. 16, figs. 9. (Farmers' Bulletin 359.)
- This bulletin contains directions for sterilization, the selection of jars for canning, selection and preparation of the vegetables, and a caution against the use of so-called "preserving powders."
- Experiment Station Work, LI. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32, figs. 6. (Farmers' Bulletin 360.)
- CONTENTS: Distance between corn hills—The bursting of carnations—Street trees—Spraying for weeds—Market classes and grades of sheep—Vetch hay and vetch silage for cows—Digestibility of kale—Hulled corn—Mixing fat into dough.
- Meadow Fescue: Its Culture and Uses. By H. N. Vinall, Scientific Assistant, Forage Crop Investigations, Bureau of Plant Industry. Pp. 24, figs. 7. (Farmers' Bulletin 361.)
- This bulletin gives the history, characteristics, and value of meadow fescue, contains directions for its cultivation, with reports of experiments at a number of experiment stations, and statements as to the habits and value of tall fescue.



## PUBLICATIONS OF THE WEATHER BUREAU.

**Daily River Stages at River Gage Stations on the Principal Rivers of the United States. Part VIII.** For the years 1905 and 1906. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. By H. C. Frankenfield, Professor of Meteorology. Pp. 270. (W. B. No. 403, Weather Bureau.) Price \$1.75.

**Monthly Weather Review, Vol. XXXVI, No. 13. Annual Summary, 1908.** Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 44, figs. 4, charts 6. (W. B. 405.) Price 20 cents; \$2.50 per year.

**National Weather Bulletin, monthly, No. 4 for April, weekly beginning with No. 5, beginning May 17, reporting temperature and rainfall with a summary of weather conditions, by sections, throughout the United States. (Nos. 5, 6, 7, 8, 9, 10, 11.)** Price 25 cents per year.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



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## United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 31, 1909.*

### MONTHLY LIST OF PUBLICATIONS.

[JULY, 1909.]

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#### REPORT.

##### NEW.

Annual Report of Alaska Agriculture Experiment Stations for 1908. By C. C. Georgeson, Special Agent in Charge, under the Supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 80, pls. 8.

#### BULLETINS.

##### NEW.

The Harmful Effects of Acetanilid, Antipyrin, and Phenacetin. By L. F. Kebler, Chief, Division of Drugs, with the Collaboration of Drs. F. P. Morgan and Philip Rupp, Assistant Chemists. Pp. 85. (Bulletin 126, Bureau of Chemistry.) Price 10 cents.

Index to Papers on the Cotton Boll Weevil and Related and Associated Insects. Pp. ix, 67–71. (Supplement to Bulletin 63, Bureau of Entomology.) Price 5 cents.

Miscellaneous notes on Truck-crop Insects. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 93–97. (Bulletin 66, Part VII, Bureau of Entomology.) Price 5 cents.

The Colorado Potato Beetle in Virginia in 1908. By C. H. Popenoe, Agent and Expert. Pp. 8, pls. 2. (Bulletin 82, Part I, Bureau of Entomology.) Price 5 cents.

Contributions toward a Monograph of the Scolytid Beetles. I. The Genus *Dendroctonus*. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 164, figs. 95, pls. 8. (Technical Bulletin 17, Part I, Bureau of Entomology.) Price 25 cents.

Proceedings of the Twenty-second Annual Convention of the Association of American Agricultural Colleges and Experiment Stations, Held at Washington, D. C., November 18–20, 1908. Edited by A. C. True and W. H. Beal, for the Office of Experiment Stations, and H. C. White, for the Executive Committee of the Association. Pp. 122. (Bulletin 212, Office of Experiment Stations.) Price 15 cents.

Proceedings of the Thirteenth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Washington, D. C., November 16–17, 1908. Edited by W. H. Beal for the Office of Experiment Stations, and John Hamilton for the Association. Pp. 73. (Bulletin 213, Office of Experiment Stations.) Price 10 cents.



Experiment Station Record, Vol. XX, No. 12, June, 1909. E. W. Allen, Ph. D., Editor. Pp. xi, 1101-1200. (No single copies of Vol. XX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Accession to the Department Library. January-March, 1909. Pp. 81. (Bulletin 71, Library.) Price 10 cents.

The Loose Smuts of Barley and Wheat. By E. M. Freeman, Collaborator, and Edward C. Johnson, Pathologist, Grain Investigations. Pp. 48, pls. 6, figs. 2. (Bulletin 152, Bureau of Plant Industry.) Price 15 cents.

A Study of Diversity in Egyptian Cotton. By O. F. Cook, Argyle McLachlan, and Rowland M. Meade. Pp. 60, pls. 6. (Bulletin 156, Bureau of Plant Industry.) Price 15 cents.

#### REPRINTS.

Bulletin 84, Part I, Bureau of Chemistry. Boric Acid and Borax. Price 30 cents.

Same, Part II, Bureau of Chemistry. Salicylic Acid and Salicylates. Price 30 cents.

Same, Part V, Formaldehyde. Price 25 cents.

Bulletin 98 (revised), Part I. Drug Legislation in the United States. Revised to July 15, 1908. Price 35 cents.

Bulletin 206, Office of Experiment Stations. Organization Lists of the Agricultural Colleges and Experiment Stations in the United States. Price 15 cents.

Vol. XX, No. 1, Experiment Station Record. September, 1908.

Same, No. 2, October, 1908.

Bulletin 61, Bureau of Forestry. Terms Used in Forestry and Logging. Price 5 cents.

Bulletin 64, Forest Service. Loblolly Pine in Eastern Texas. Price 5 cents.

Bulletin 72, Forest Service. Wolves in relation to Stock, Game, and the National Forest Reserves. Price 10 cents.

Bulletin 30, Bureau of Soils. The Mineral Constituents of the Soil Solution. Price 5 cents.

#### CIRCULARS.

##### NEW.

Misbranding of Rye Flour—Canned Peas—Lemon Extract—Canned Cherries—Vinegar—Maple Sirup—Adulteration and Misbranding of Pepper—Adulteration of Oats—Misbranding of Canned Tomatoes—Water—Tomato Catsup—Salad Oil—Adulteration of Milk. Pp. 23. (Notice of Judgment 69-81. Food and Drugs Act, Office of the Secretary.)

Misbranding of Drug Preparations. (Mme. Yale's Skin Food, etc.) Pp. 7. (Notice of Judgment 82, Food and Drugs Act, Office of the Secretary.)

Misbranding of Wine—Baked Beans and Tomato Sauce—Canned Tomatoes—A Drug Product—Evaporated Apples—Adulteration of Milk—Misbranding of Evaporated Apples (underweight)—Canned Peas. Pp. 19. (Notice of Judgment 83-90, Food and Drugs Act, Office of the Secretary.)

Amendment 2 to Rule 1, Revision 4.—To Prevent the Spread of Splenic Fever in Cattle, Amendment regarding Cattle for the Oklahoma State Fair. P. 1. (Amendment 2 to B. A. I. Order 158, Bureau of Animal Industry.)

The Rose-chaffer. (*Macrodactylus subspinosus* Fab.) By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 4, fig. 1. (Circular 11, revised, Bureau of Entomology.)

The Leopard Moth. (*Zeuzera pyrina* Fab.) By L. O. Howard and F. H. Chittenden. Pp. 8, figs. 2. (Circular 109, Bureau of Entomology.)

The Green-striped Maple Worm. (*Anisota rubicunda* Fab.) By L. O. Howard and F. H. Chittenden. Pp. 7, figs. 3. (Circular 110, Bureau of Entomology.)

Organization, Work, and Publications of Drainage Investigations. Pp. 5. (Document 1180, Office of Experiment Stations.)

Rural versus Urban Conditions in the Determination of Educational Policy. By Andrew Sledd, President State University of Florida. Pp. 53-59. (Document 1183, from Bulletin 212, Office of Experiment Stations.)

Bovine Tuberculosis and Methods for Its Control. By V. A. Moore, Professor of Comparative Pathology and Bacteriology, New York State Veterinary College. Pp. 88-94. (Document 1185, from Bulletin 212, Office of Experiment Stations.)



- Organization, Work, and Publications of Irrigation Investigations. Pp. 12. (Document 1188, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during June, 1909. Pp. 7. (Document 1192, Office of Experiment Stations.)
- White Elm (*Ulmus americana*). Pp. 3. (Circular 66, revised, Forest Service.)
- Paper Birch in the Northeast. By S. T. Dana, Forest Assistant. Pp. 37, figs. 2. (Circular 163, Forest Service.)
- The Timber Supply of the United States. By R. S. Kellogg, Assistant Forester. Pp. 24; figs. 6. (Circular 166, Forest Service.)
- Moisture Content and Shrinkage in Grain. By J. W. T. Duvel, Assistant in Charge of Laboratory Methods, Grain Standardization. Pp. 13. (Circular 32, Bureau of Plant Industry.)
- The Necessity for New Standards of Hop Valuation. By W. W. Stockberger, Pharmacognosist, Drug-Plant Investigations. Pp. 11. (Circular 33, Bureau of Plant Industry.)
- The Work of the San Antonio Experiment Farm in 1908. By Frank B. Headley, Scientific Assistant, and Stephen H. Hastings, Farm Superintendent, Western Agricultural Extension. Pp. 17, fig. 1. (Circular 34, Bureau of Plant Industry.)
- The Bud-rot of the Coconut Palm. By John R. Johnston, Scientific Assistant, Laboratory of Plant Pathology. Pp. 5. (Circular 36, Bureau of Plant Industry.)
- Monthly List of Publications. May-June, 1909. Pp. 4. (Document 652, Division of Publications.)
- Publications of the Office of Public Roads. Pp. 7. (Circular 88, revised, Office of Public Roads.)
- Soils in the Vicinity of Savannah, Ga.: A Preliminary Report. Pp. 19. (Circular 19, Bureau of Soils.)
- The Twenty-eight Hour Law. Pp. 6. (Circular 20, Office of the Solicitor.)
- Crop Reporter, vol. 11, No. 7, July, 1909. Pp. 41-48. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Circular 139, Bureau of Animal Industry. The Score-card System of Dairy Inspection.
- Circular 114, Bureau of Animal Industry. Sanitary Milk Production.
- Circular 140, Bureau of Animal Industry. The Egg Trade of the United States.
- Circular 7, Division of Entomology. The Pear-tree Psylla.
- Circular 49, Division of Entomology. The Silver Fish.
- Circular 45, Forest Service. Forest Planting in Eastern Nebraska.
- Circular 102, Forest Service. Production of Red Cedar for Pencil Wood.
- Circular 103, Forest Service. Seasoning of Telephone and Telegraph Poles.
- Circular 104, Forest Service. Brush and Tank Pole Treatments.
- Circular 112, Forest Service. The Analysis and Grading of Creosotes.
- Circular 116, Forest Service. The Waning Hardwood Supply and the Appalachian Forests.
- Circular 132, Forest Service. The Seasoning and Preservative Treatment of Hemlock and Tamarack Cross-ties.
- Circular 142, Forest Service. Tests of Vehicle and Implement Woods.
- Circular 146, Forest Service. Experiments with Railway Cross-ties.
- Circular 147, Forest Service. Progress in Chestnut Pole Preservation.
- Circular 148, Forest Service. Practical Results in Basket Willow Culture.
- Circular 156, Forest Service. Preliminary Report on Grazing Experiments in a Coyote-proof Pasture.
- Circular 24, Bureau of Plant Industry. Alfalfa in Cultivated Rows for Seed Production in Semiarid Regions.
- Circular 2, Division of Publications. Publications for Free Distribution.
- Circular 159, Forest Service. The Future Use of Land in the United States.

#### FARMERS' BULLETINS.

##### NEW.

- Conditions Affecting the Value of Market Hay. By Harry B. McClure, Scientific Assistant, Office of Farm Management, Bureau of Plant Industry. Pp. 31, figs. 7. (Farmers' Bulletin 362.)

This Bulletin discusses the factors influencing the hay industry, the Southern hay trade, hay areas in United States, increase in yields and prices, value of different grades of hay, losses caused by stacking, etc.



The Use of Milk as Food. By R. D. Milner, Assistant in Nutrition Investigations. Pp. 46, charts 4. (Farmers' Bulletin 363.)

This Bulletin is designed to supersede Farmers' Bulletin 74 on the same subject. It contains information as to the sources and kinds of milk, its composition, characteristics, and preservation; description, value, etc., of some milk products, with remarks on the nutritive and economic value of milk as compared with other foods.

Experiment Station Work, LII. (Compiled from the publications of the Agricultural Experiment Stations.) Pp. 32. (Farmers' Bulletin 366.)

CONTENTS: Treatment of muck soils—Manures for timothy hay—Corn breeding—Yellow berry in wheat—Weed seeds in feeding stuffs—Hookworm disease in cattle—Effect of machine milking on cows—Milk supply of cities—The crow—Labor, wages, and cost of board in Minnesota.

#### SEPARATES.

#### NEW.

The Wastes of the Farm. By A. F. Woods, Physiologist and Pathologist, Bureau of Plant Industry. Pp. 195–216. (Separate 475, Yearbook, 1908.)

Cost and Methods of Transporting Meat Animals. By Frank Andrews, Scientific Assistant, Division of Production and Distribution, Bureau of Statistics. Pp. 227–244, fig. 1. Separate 477, Yearbook, 1908.)

Suitable Paper for Permanent Records. By F. P. Veitch, Chief, Leather and Paper Laboratory, Bureau of Chemistry. Pp. 261–266. (Separate 479, Yearbook, 1908.)

The So-called Change of Climate in the Semiarid West. By Richard H. Sullivan, Local Forecaster, Weather Bureau, Wichita, Kans. Pp. 289–300, fig. 1. (Separate 481, Yearbook, 1908.)

The Causes of Southern Rural Conditions and the Small Farm as an Important Remedy. By S. A. Knapp, Special Agent in Charge of Farmers' Cooperative Demonstration Work, Bureau of Plant Industry. Pp. 311–320. (Separate 483, Yearbook, 1908.)

Recent Work of the Bureau of Animal Industry concerning the Cause and Prevention of Hog Cholera. By M. Dorset, Chief, Biochemic Division, Bureau of Animal Industry. Pp. 321–332. (Separate 484, Yearbook, 1908.)

The Relations between Birds and Insects. By F. E. L. Beal, Assistant in Charge of Economic Ornithology, Biological Survey. Pp. 343–350. (Separate 486, Yearbook, 1908.)

Types of Farming in the United States. By W. J. Spillman, Agriculturist in Charge of Office of Farm Management, Bureau of Plant Industry. Pp. 351–366. (Separate 487, Yearbook, 1908.)

Plant Food Removed from Growing Plants by Rain and Dew. By J. A. Le Clerc and J. F. Breazeale, Vegetable Physiological Chemists, Bureau of Chemistry. Pp. 389–402. (Separate 489, Yearbook, 1908.)

Use of Poisons for Destroying Noxious Mammals. By David E. Lantz, Assistant, Biological Survey. Pp. 421–432. (Separate 491, Yearbook, 1908.)

By-products of the Sugar Beet and Their Uses. By C. O. Townsend, Pathologist in Charge of Beet-sugar Investigations, Bureau of Plant Industry. Pp. 443–452. (Separate 493, Yearbook, 1908.)

Soil Mulches for Checking Evaporation. By Samuel Fortier, Chief, Irrigation Investigations, Office of Experiment Stations. Pp. 465–472, figs. 7. (Separate 495, Yearbook, 1908.)

#### REPRINTS.

Separate 47, Yearbook, 1895. Small-fruit Culture for Market.

Separate 413, Yearbook, 1906. Introduction of Elementary Agriculture into Schools.

Separate from Entomology Bulletin 60. The Corn Root-aphis and Its Attendant Ant.

#### PUBLICATIONS OF THE WEATHER BUREAU.

National Weekly Weather Bulletin, reporting temperature and rainfall with a summary of weather conditions by sections throughout the United States. (Nos. 12, 13, 14, 15.) Price 25 cents per year.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 671.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *August 31, 1909.*

## MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1909.]

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Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

### REPORT.

#### NEW.

Yearbook of the U. S. Department of Agriculture, 1908. Pp. 822, pls. 55, figs. 29. Price, cloth, \$1.25.

The Yearbook contains the annual report of the Secretary of Agriculture, 186 pages, and 23 miscellaneous papers, 304 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the department; also an appendix, 294 pages, and index, 38 pages. The appendix contains lists of names and post-offices of persons prominent in agricultural work in all its branches, including a statement of the department organization, with the names of the persons in charge of the several branches of the work. It presents summaries of agricultural observations in several fields and of legislation on forestry, roads, and game protection. It closes with the annual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products. Among the new features in the portion devoted to agricultural statistics are tables showing the production and trade in tobacco from the earliest colonial times, and the foreign trade in agricultural products, including forest products, 1851–1908.

Only 6 out of each 100 of this publication are assigned to this department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, or Delegates in Congress, to whom the other 94 per cent are allotted for distribution. The Superintendent of Documents sells it at \$1.25 per copy.

### BULLETINS.

#### NEW.

Tests concerning Tubercle Bacilli in the Circulating Blood. By E. C. Schroeder, Superintendent of Experiment Station, and W. E. Cotton, Expert Assistant at Experiment Station. Pp. 23. (Bulletin 116, Bureau of Animal Industry.) Price, 5 cents.

The Rabbits of North America. By E. W. Nelson, Chief Field Naturalist, Biological Survey. Prepared under the direction of C. Hart Merriam, Chief, Bureau of Biological Survey. Pp. 314, pls. 13, figs. 19. (North American Fauna, 29, Bureau of Biological Survey.) Price, 50 cents.

The Greenhouse Thrips. By H. M. Russell, Agent and Expert. Pp. 43–60, figs. 3. (Bulletin 64, Part 6, Bureau of Entomology.) Price, 5 cents.

New Breeding Records of the Coffee-bean Weevil. By E. S. Tucker, Special Field Agent. Pp. 61–64, pl. 1, fig. 1. (Bulletin 64, Part 7, Bureau of Entomology.) Price, 5 cents.

Additional Observations on the Lesser Apple Worm. By S. W. Foster and P. R. Jones, Engaged in Deciduous Fruit Insect Investigations. Pp. 45–50, pl. 1. (Bulletin 80, Part 3, Bureau of Entomology.) Price, 5 cents.



Experiment Station Record, Vol. XXI, No. 1, July, 1909. E. W. Allen, Ph. D., Editor. Pp. lx, 1-100. (No single copies of Vol. XXI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—With the beginning of the new volume, Vol. XXI, this serial will be issued in two volumes a year of six numbers each, and the Superintendent of Documents has fixed the price at \$1 a volume, payable in advance.

The Truckee-Carson Experiment Farm. By Carl S. Scofield, Agriculturist in Charge, and Shober J. Rogers, Farm Superintendent, Western Agricultural Extension. Pp. 38, pls. 2, figs. 2. (Bulletin 157, Bureau of Plant Industry.) Price, 10 cents.

Forest Trees of the Pacific Slope. By George B. Sudworth, Dendrologist. Pp. 441, figs. 207. (Miscellaneous, Forest Service.) Price, 60 cents.

The Present Status of the Chestnut Bark Disease. By Haven Metcalf, Pathologist in Charge, and J. Franklin Collins, Special Agent, Investigations in Forest Pathology. Pp. 45-54, pl. 1, fig. 1. (Bulletin 141, Part 5, Bureau of Plant Industry.) Price, 5 cents.

The Control of the Black-rot of the Grape. By C. L. Shear, Pathologist, and George F. Miles and Lon A. Hawkins, Scientific Assistants, Fruit Disease Investigations. Pp. 42, pls. 5, figs. 2. (Bulletin 155, Bureau of Plant Industry.) Price, 15 cents.

#### REPRINTS.

Bulletin 33, Biological Survey. The Brown Rat in the United States. Price, 15 cents.

Bulletin 116, Bureau of Chemistry. Proceedings of the Twenty-fourth Annual Convention of the Association of Official Agricultural Chemists, held at the Jamestown Exposition, Norfolk, Va., October 9-11, 1907. Price, 20 cents.

Bulletin 122, Bureau of Chemistry. Proceedings of the Twenty-fifth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 12-16, 1908. Price, 40 cents.

Bulletin 55, Bureau of Soils. Soils of the United States. Part I. Results of Recent Soil Investigations. Part II. Classification of the Soils of the United States. Price, 45 cents.

#### CIRCULARS.

##### NEW.

The Labeling of Wines. P. 1. (Food Inspection Decision 109, Office of the Secretary.) Regulations Governing Entrance to the Veterinary Inspector Examination. Pp. 11. (Circular 150, Bureau of Animal Industry.)

Amendment to Regulation 1, Designating Campo, Cal. (Port of San Diego), as a Quarantine Station. P. 1. (Amend. 5 to B. A. I. Order 142.)

Amendment 4 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. P. 1. (Amend. 4 to B. A. I. Order 146.)

Amendment 5 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. P. 1. (Amend. 5 to B. A. I. Order 146.)

Amendment 6 to Rule 3, Revision 1.—To Prevent the Spread of Scabies in Sheep. Pp. 2. (Amend. 6 to B. A. I. Order 146.)

Amendment 3 to Rule 2, Revision 2.—To Prevent the Spread of Scabies in Cattle. P. 1. (Amend. 3 to B. A. I. Order 152.)

Rule 8.—To Prevent the Spread of Lip and Leg Disease (Necrobacillosis) in Sheep. Pp. 3. (B. A. I. Order 163.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game. 1909. Pp. 16. (Circular 70, Bureau of Biological Survey.)

Apparatus for Use in the Determination of Volatile Acids in Wines and Vinegars. By H. C. Gore, Assistant Chemist, Division of Foods. Pp. 2. (Circular 44, Bureau of Chemistry.)

Requirements to be Complied with by Nurserymen or Others Who Make Interstate Shipments of Nursery Stock. (Compiled and revised to July 1, 1909.) By A. F. Burgess, Expert in Charge of Breeding Experiments. Pp. 9. (Circular 75, Bureau of Entomology.)

Education for Country Life. By Willet M. Hays, Assistant Secretary of Agriculture. Pp. 40, figs. 13. (Circular 84, Office of Experiment Stations.)

Organization, Work, and Publications of Drainage Investigations. Pp. 5. (Doc. 1180, Office of Experiment Stations.)



- List of Publications of the Office of Experiment Stations on Agricultural Education. Pp. 14. (Doc. 1184, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during July, 1909. Pp. 5. (Doc. 1202, Office of Experiment Stations.)
- Bur Oak (*Quercus macrocarpa*). Pp. 3. (Circular 56, Revised, Forest Service.)
- European Larch (*Larix europæa*). Pp. 3. (Circular 70, Revised, Forest Service.)
- Boxelder (*Acer negundo*). Pp. 3. (Circular 86, Revised, Forest Service.)
- Black Walnut (*Juglans nigra*). Pp. 5. (Circular 88, Revised, Forest Service.)
- Properties and Uses of Southern Pines. By H. S. Betts. Pp. 30, figs. 6. (Circular 164, Forest Service.)
- The Present Status of the White-pine Blights. By Perley Spaulding, Pathologist, Office of Investigations in Forest Pathology. Pp. 12. (Circular 35, Bureau of Plant Industry.)
- European Currant Rust on the White Pine in America. By Perley Spaulding, Pathologist, Office of Investigations in Forest Pathology. Pp. 4. (Circular 38, Bureau of Plant Industry.)
- The Twenty-eight Hour Law. Pp. 10. (Circular 21, Office of the Solicitor.)
- Judicial Notice of the Regulations of the U. S. Department of Agriculture. Pp. 8. (Circular 22, Office of the Solicitor.)
- Crop Reporter, Vol. 11, No. 8, August, 1909. Pp. 49-56. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Circular 29, Office of the Secretary. Test of the so-called Anti-abortion Serum.
- Circular 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.
- Circular 142, Bureau of Animal Industry. Some Important Factors in the Production of Sanitary Milk.
- Circular 144, Bureau of Animal Industry. Tuberculosis of Hogs: Its Cause and Suppression.
- Circular 9, Division of Entomology. Canker-worms.
- Circular 52, Division of Entomology. The Lime, Sulphur, and Salt Wash.
- Circular 72, Bureau of Entomology. Key to the Known Larvæ of the Mosquitoes of the United States.
- Circular 79, Bureau of Entomology. The Brood Diseases of Bees.
- Circular 76, Office of Experiment Stations. Swamp and Overflowed Lands in the United States. Ownership and Reclamation.
- Circular 47, Forest Service. Strength of Packing Boxes of Various Woods.
- Circular 50, Forest Service. Wood Used for Distillation in 1905.
- Circular 91, Forest Service. Coffee tree.
- Circular 93, Forest Service. Yellow, or Tulip, Poplar.
- Circular 95, Forest Service. Sugar Maple.
- Circular 114, Forest Service. Wood Distillation.
- Circular 115, Forest Service. Second Progress Report on the Strength of Structural Timber.
- Misc. Forest Service. The Use Book.
- Doc. 477, Bureau of Plant Industry. American Ginseng.

#### FARMERS' BULLETINS.

##### NEW.

- A Profitable Cotton Farm. By C. L. Goodrich, Expert, Office of Farm Management, Bureau of Plant Industry. Pp. 23, figs. 12. (Farmers' Bulletin 364.)
- An account of the successful management of a run-down cotton farm of 132 acres in South Carolina, with methods of plowing, drainage, cultivation and rotation of crops, the use of fertilizers, and a statement of the cost and value of the crops produced in 1908.
- Lightning and Lightning Conductors. By Alfred J. Henry, Professor of Meteorology, Weather Bureau. Pp. 20, figs. 3. (Farmers' Bulletin 367.)
- This bulletin explains briefly some of the most common of electrical phenomena, conductors and non-conductors, positive and negative electrification, thunderstorms, etc., and contains suggestions for the protection of buildings from lightning.



The Eradication of Bindweed, or Wild Morning-glory. By H. R. Cox, Scientific Assistant, Office of Farm Management, Bureau of Plant Industry. Pp. 19, figs. 6. (Farmers' Bulletin 368.)

This bulletin contains statements as to the injurious effects of bindweed, its distribution, description, methods for its eradication, etc.

#### SEPARATES.

##### NEW.

The Economic Value of Predaceous Birds and Mammals. By A. K. Fisher, in Charge of Economic Investigations, Biological Survey. Pp. 187-194, pls. 3. (Separate No. 474, Yearbook, 1908.)

Some Facts about Tuberculous Cattle. By E. C. Schroeder, Superintendent of Experiment Station, Bureau of Animal Industry. Pp. 217-226, pls. 5. (Separate No. 476, Yearbook, 1908.)

The Search for New Leguminous Forage Crops. By C. V. Piper, Agrostologist, in Charge of Forage Crop Investigations, Bureau of Plant Industry. Pp. 245-260, pls. 7. (Separate No. 478, Yearbook, 1908.)

Information about Spraying for Orchard Insects. By A. L. Quaintance, in Charge of Deciduous-Fruit Insect Investigations, Bureau of Entomology. Pp. 267-288, pls. 5. (Separate No. 480, Yearbook, 1908.)

Mouse Plagues, Their Control and Prevention. By Stanley E. Piper, Assistant, Biological Survey. Pp. 301-310, pls. 5. (Separate No. 482, Yearbook, 1908.)

The Manufacture of Flavoring Extracts. By E. M. Chace, Assistant Chief, Division of Foods, Bureau of Chemistry. Pp. 333-342, pls. 4. (Separate No. 485, Yearbook, 1908.)

Some Things That the Grower of Cereal and Forage Crops Should Know about Insects. By F. M. Webster, in charge of Cereal and Forage-Plant Insect Investigations, Bureau of Entomology. Pp. 367-388, pls. 3, figs. 19. (Separate No. 488, Yearbook, 1908.)

Intensive Methods and Systematic Rotation of Crops in Tobacco Culture. By E. H. Mathewson, Crop Technologist, Tobacco Investigations, Bureau of Plant Industry. Pp. 403-420, pls. 5. (Separate No. 490, Yearbook, 1908.)

Instruments for Making Weather Observations on the Farm. By Dewey A. Seeley, Observer, Weather Bureau. Pp. 433-442, pl. 1, figs. 2. (Separate No. 492, Yearbook, 1908.)

The Development of Farm Crops Resistant to Disease. By W. A. Orton, Pathologist in Charge of Cotton and Truck Diseases, Bureau of Plant Industry. Pp. 453-464, pls. 2. (Separate 494, Yearbook, 1908.)

#### REPRINTS.

Separate 215, Yearbook, 1900. Commercial Pear Culture.

Separate 233, Yearbook, 1901. Some Problems of the Rural Common School.

Separate 285, Yearbook, 1902. Progress in Secondary Education in Agriculture.

Separate 309, Yearbook, 1903. The Economic Value of the Bobwhite.

Separate 396, Yearbook, 1905. Farm Practice in the Control of Field-crop Insects.

Separate 2, O. E. S. Bul. 158. Irrigation in Santa Clara Valley, California; Mechanical Tests of Pumping Plants Used for Irrigation.

#### PUBLICATIONS OF THE WEATHER BUREAU.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Tuesday in August. (Nos. 16, 17, 18, 19, 20.) Price 25 cents per year.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
JAMES WILSON,  
*Secretary of Agriculture.*



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WASHINGTON, D. C., *September 30, 1909.*

**MONTHLY LIST OF PUBLICATIONS.**

**[SEPTEMBER, 1909.]**

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**REPORTS.**

**NEW.**

Annual Report of the Office of Experiment Stations for the Year Ended June 30, 1908. Pp. 417, pls. 14, figs. 4. Price, paper, 40 cents, postage 12 cents; cloth, 60 cents, postage 16 cents.

Field Operations of the Bureau of Soils, 1907. (Ninth Report.) Pp. 1062, pls. 4, figs. 36, maps 35 (in pocket). Price, cloth, \$4.50; postage 70 cents, but for book and maps without cover, 64 cents. Price of book without maps, \$1; postage 28 cents.

**BULLETINS.**

**NEW.**

Papers on the Cotton Boll Weevil and Related and Associated Insects. I. Hibernation and Development of the Cotton Boll Weevil. By E. Dwight Sanderson, formerly State Entomologist of Texas. II. Notes on the Biology of Certain Weevils Related to the Cotton Boll Weevil. By W. Dwight Pierce, Special Field Agent. III. An Ant Enemy of the Cotton Boll Weevil. By W. E. Hinds, In Charge of Cotton Boll Weevil Laboratory. IV. A Predatory Bug Reported as an Enemy of the Cotton Boll Weevil. By A. C. Morgan, Special Field Agent. V. Notes on the Pepper Weevil. By F. C. Pratt, Assistant. VI. The Strawberry Weevil in the South-central States in 1905. By A. W. Morrill, Special Field Agent. VII. The Cotton Stalk-borer. By A. C. Morgan, Special Field Agent. Pp. 71, pls. 3, figs. 10. (Bulletin 63, Bureau of Entomology.) Price 15 cents; postage 4 cents.

Papers on Deciduous Fruit Insects and Insecticides. Part I. The Pear Thrips. By Dudley Moulton, Engaged in Deciduous Fruit Insect Investigations. Pp. 16, pls. 2, figs. 8. (Bulletin 68, Part I, revised, Bureau of Entomology.) Price 10 cents; postage 1 cent.

*Same*, Contents and Index. Pp. viii, 109–117. (Supplement, Bulletin 68, Bureau of Entomology.) Price 5 cents; postage 1 cent.

The Pear Thrips and Its Control. By Dudley Moulton, Engaged in Deciduous Fruit Insect Investigations. Pp. 51–66, pls. 3, figs. 5. (Bulletin 80, Part IV, Bureau of Entomology.) Price 10 cents; postage 2 cents.

Fumigation of Apples for the San Jose Scale. By A. L. Quaintance, in Charge of Deciduous Fruit Insect Investigations. Pp. 43, pls. 2, figs. 3. (Bulletin 84, Bureau of Entomology.) Price 20 cents; postage 3 cents.



- A new Genus of Aleyrodidæ, with Remarks on *Aleyrodes nubifera* Berger and *Aleyrodes citri* Riley and Howard. By A. L. Quaintance, In Charge of Deciduous Fruit Insect Investigations. Pp. 169-174, figs. 2. (Bulletin 12, Part IX, Technical Series, Bureau of Entomology.) Price 5 cents; postage 1 cent.
- Irrigation in Idaho. By James Stephenson, jr., State Engineer. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 59, pl. 1. (Bulletin 216, Office of Experiment Stations.) Price 15 cents; postage 3 cents.
- Drainage of Irrigated Lands in the San Joaquin Valley, California. By Samuel Fortier and Victor M. Cone. Pp. 58, pls. 2, figs. 9. (Bulletin 217, Office of Experiment Stations.) Price 15 cents; postage 3 cents.
- Irrigation in North Dakota. By T. R. Atkinson, State Engineer. Prepared under the direction of Samuel Fortier, Chief of Irrigation Investigations. Pp. 39, pl. 1. (Bulletin 219, Office of Experiment Stations.) Price 10 cents; postage 2 cents.
- Experiment Station Record, Vol. XX. Name Index. E. W. Allen, Ph. D., Editor. Pp. xviii, 1201-1226. Price 15 cents; postage 3 cents.
- Same*, Vol. XXI, No. 2, August, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 101-200.
- Same*, Vol. XXI, No. 3, September, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 201-300. (No single copies of Vol. XXI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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- Accessions to the Department Library, April-June, 1909. Pp. 90. (Bulletin 72, Library.) Price 10 cents; postage 3 cents.
- Miscellaneous Papers. I. The Relation of Nicotine to the Burning Quality of Tobacco. By Wightman W. Garner, Scientific Assistant, Tobacco Investigations. II. The Granville Tobacco Wilt. By Erwin F. Smith, Pathologist in Charge of the Laboratory of Plant Pathology. III. The Florida Velvet Bean and Its History. By Katherine Stephens Bort, Laboratory Aid, Forage Crop Investigations. IV. The Importance of Broad Breeding in Corn. By G. N. Collins, Assistant Botanist. V. The Present Status of the Chestnut-bark Disease. By Haven Metcalf, Pathologist in Charge, and J. Franklin Collins, Special Agent, Investigations in Forest Pathology. Pp. 56, pls. 4, figs. 2. (Bulletin 141, Bureau of Plant Industry.) Price 10 cents; postage 3 cents.
- Local adjustment of Cotton Varieties. By O. F. Cook, Bionomist, Bureau of Plant Industry. Pp. 75. (Bulletin 159, Bureau of Plant Industry.) Price 10 cents; postage 3 cents.
- Heat Transference in Soils. By Harrison E. Patten, Scientist in Soil Laboratory Investigations, Bureau of Soils. Pp. 54, figs. 22. (Bulletin 59, Bureau of Soils.) Price 10 cents; postage 3 cents.
- A Preliminary Report on the Volusia Soils, Their Problems and Management. By M. Earl Carr. Pp. 22, pls. 10, fig. 1. (Bulletin 60, Bureau of Soils.) Price 20 cents; postage 3 cents.
- Fertilizers for Cotton Soils. By Milton Whitney. Pp. 24, fig. 1. (Bulletin 62, Bureau of Soils.) Price 5 cents; postage 2 cents.

#### REPRINTS.

- Bulletin 144, Part I, Office of Experiment Stations. Irrigation in Northern Italy. Price 20 cents; postage 6 cents.
- Bulletin 41, Bureau of Forestry. Seasoning of Timber. Price 25 cents; postage 5 cents.
- North American Fauna 27, Bureau of Biological Survey. A Biological Investigation of the Athabaska-Mackenzie Region. Price 80 cents; postage 24 cents.

#### CIRCULARS.

(Price 5 cents; postage 1 cent.)

#### NEW.

- Misbranding of Lemon, Raspberry, and Strawberry Extracts. Pp. 2. (Notice of Judgment 91, Food and Drugs Act, Office of the Secretary.)



- Classified List of Available Publications of the Bureau of Animal Industry. Pp. 8. (Circular 134, revised, Bureau of Animal Industry.)
- A Cold-storage Evaporimeter. By Milo M. Hastings, Scientific Assistant, Animal Husbandry Office. Pp. 8, fig. 1. (Circular 149, Bureau of Animal Industry.)
- Amendment 3 to Rule 1, Revision 4. To Prevent the Spread of Splenetic Fever in Cattle. Amendment Regarding the Return of Cattle of the Nonquarantined Area that are Exhibited at the State Fair at Raleigh, N. C., October 18 to 23, 1909. Pp. 2. (Amend. 3 to B. A. I. Order 158.)
- Amendment 4 to *same*, Amendment regarding Cattle for the Tri-State Fair in Memphis, Tennessee. P. 1. (Amend. 4 to B. A. I. Order 158.)
- Amendment 1 to Rule 8. To Prevent the Spread of Lip and Leg Disease (Necrobacillosis) in Sheep. P. 1. (Amend. 1 to B. A. I. Order 163.)
- A New Method for Measuring the Electrolytic Dissociation of Water. By C. S. Hudson, Assistant Chemist. Pp. 2. (Circular 45, Bureau of Chemistry.)
- Preparations for Winter Fumigation for the Citrus White Fly. By A. W. Morrill and W. W. Yothers. Pp. 12, figs. 4. (Circular 111, Bureau of Entomology.)
- Publications of the Office of Experiment Stations from Its Organization to June 30, 1909. Pp. 20. (Circular 70, revised, Office of Experiment Stations.)
- Organization, Work, and Publications of Drainage Investigations. Pp. 6. (Circular 88, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during August, 1909. Pp. 5. (Document 1211, Office of Experiment Stations.)
- Coyote-proof Pasture Experiment, 1908. By James T. Jardine, Special Agent Forest Service, in cooperation with Bureau of Plant Industry. Pp. 40, figs. 5. (Circular 160, Forest Service.)
- The Status of Forestry in the United States. By Treadwell Cleveland, jr., Expert. Pp. 39. (Circular 167, Forest Service.)
- Natural Revegetation of Depleted Mountain Grazing Lands. Progress Report. By Arthur W. Sampson, Plant Ecologist, Forest Service. Pp. 28, figs. 5. (Circular 169, Forest Service.)
- Comparative Tests of Sugar-beet Varieties. By J. E. W. Tracy, Assistant Superintendent of Testing Gardens, assisted by Joseph F. Reed, Assistant in Sugar-beet Investigations. Pp. 21, figs. 2. (Circular 37, Bureau of Plant Industry.)
- Crop Reporter, Vol. 11, No. 9, September, 1909. Pp. 57-64. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

- Circular 131, Bureau of Animal Industry. Designs for Dairy Buildings.
- Circular 31, second revision, Bureau of Entomology. The Striped Cucumber Beetle.
- Circular 39, Forest Service. Experiments on the Strength of Treated Timber.

#### FARMERS' BULLETINS.

(Price 5 cents; postage 1 cent.)

#### NEW.

- Farm Management in Northern Potato-growing Sections. By Lawrence G. Dodge, Scientific Assistant, Office of Farm Management, Bureau of Plant Industry. Pp. 31, figs. 11. (Farmers' Bulletin 365.)

This bulletin contains statistics of potato crops in each of ten leading potato-growing States and methods of cultivating, handling, and storing the crop, with special attention to the system of potato farming in Aroostook County, Me.

- How to Destroy Rats. By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 20, figs. 5. (Farmers' Bulletin 369.)

This bulletin contains suggestions for rat-proof buildings and destruction of rats by traps, poisons, and by organized efforts.

- Replanning a Farm for Profit. By C. Beaman Smith, Agriculturist, and J. W. Froley, Assistant Agriculturist, Bureau of Plant Industry. Pp. 36. (Farmers' Bulletin 370.)

This bulletin presents six different farming systems for a run-down 80-acre farm in central Illinois, with estimated cost and returns of each type. It also indicates some of the problems and difficulties attending radical changes in a long-established farming system.



Harmfulness of Headache Mixtures. By L. F. Kebler, Chief, Division of Drugs, Bureau of Chemistry, and Drs. F. P. Morgan and Philip Rupp, Assistant Chemists. Pp. 16. (Farmers' Bulletin 377.)

This bulletin describes the introduction, uses, and effects of acetanilid, antipyrin, and phenacetin as medicines, explains the dangers resulting from the use of headache mixtures containing these drugs, and cites numerous cases of poisoning from such compounds.

#### SEPARATES.

(Price 5 cents; postage 1 cent.)

#### NEW.

Promising New Fruits. By William A. Taylor, Pomologist in Charge of Field Investigations, Bureau of Plant Industry. Pp. 473-490, pls. 9. (Separate 496, Yearbook 1908.)

A Directory for Farmers. Pp. 491-515. (Separate 497, Yearbook 1908.)

Agricultural Statistics, 1908. Pp. 597-787. (Separate 498, Yearbook 1908.)

The Principal Injurious Insects of the Year 1908. Prepared in the Bureau of Entomology. Pp. 567-580. (Separate 499, Yearbook 1908.)

Progress of Game Protection in 1908. By T. S. Palmer, Assistant in Charge of Game Preservation, Biological Survey. Pp. 580-590. (Separate 500, Yearbook 1908.)

#### REPRINT.

Separate 350, Yearbook 1904. Practical Road Building in Madison County, Tennessee.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVII, No. 2. February, 1909. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 43-84, figs. 5, charts 8. Price 20 cents, postage 5 cents; \$2.50 per year, postage 60 cents.

*Same*, Vol. XXXVII, No. 3. March, 1909. Prepared under the Direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 85-123, figs. 8. Price 20 cents, postage 5 cents; \$2.50 per year, postage 60 cents.

*Same*, Vol. XXXVII, No. 4. April, 1909. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 125-171, figs. 9, charts 9. Price 20 cents, postage 5 cents; \$2.50 per year, postage 60 cents.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions, by sections, throughout the United States. Issued each Tuesday in September. (Nos. 21, 22, 23, 24.) Price 25 cents per year; postage 30 cents.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



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Do not send Money to the U. S. Department of Agriculture, but to the Superintendent of Documents, Government Printing Office, Washington, D. C., who alone is authorized to sell all Publications of this Government.

This circular will be sent regularly to all who apply for it.

No. 677.

DEC 8 1909

# United States Department of Agriculture, DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *October 30, 1909.*

## MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1909.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

### ADVANCE SHEETS, SOIL SURVEY, 1908.

- Soil Survey of Colbert County, Alabama. By William G. Smith, U. S. Department of Agriculture, and C. S. Waldrop, of the Alabama Department of Agriculture and Industries, assisted by J. C. Britton and C. R. Zappone, jr. Pp. 34, fig. 1, map.
- Soil Survey of Henry County, Alabama. By Grove B. Jones, U. S. Department of Agriculture, and E. S. Pace, of the Alabama Department of Agriculture and Industries, assisted by H. L. Westover. Pp. 35, fig. 1, map.
- Soil Survey of Wexford County, Michigan. By W. J. Geib. Pp. 20, fig. 1, map.
- Soil Survey of Holmes County, Mississippi. By W. J. Geib. Pp. 32, fig. 1, map.
- Soil Survey of Robeson County, North Carolina. By W. Edward Hearn, assisted by G. M. MacNider and J. E. Turlington, of the North Carolina Department of Agriculture. Pp. 28, fig. 1, map.

### REPORT.

### REPRINT.

- Twenty-fourth Annual Report of the Bureau of Animal Industry, 1907. Price, 85 cents.

### BULLETINS.

#### NEW.

- Index-catalogue of Medical and Veterinary Zoology. Part 24. (Authors: R to Rizzo.) By Ch. Wardell Stiles, Consulting Zoologist of the Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1807-1893. (Bulletin 39, Part 24, Bureau of Animal Industry.) Price 10 cents.
- Camembert Cheese Problems in the United States. By Charles Thom, Mycologist in Cheese Investigations, Dairy Division. Pp. 54, figs. 6. (Bulletin 115, Bureau of Animal Industry.) Price 10 cents.
- Leucocytes in Milk: Methods of Determination and the Effect of Heat upon Their Number. By H. C. Campbell, Expert in Milk Hygiene, Pathological Division. Pp. 19. (Bulletin 117, Bureau of Animal Industry.) Price 5 cents.
- Studies on Blood and Blood Parasites. I. Observations on Mammalian Blood with Dark-field Illumination. II. The Priority of Cryptobia Leidy, 1846, over Trypanoplasma Laveran and Mesnil, 1901. III. Trypanosoma Americanum n. sp., A Trypanosome Which Appears in Cultures Made from the Blood of American Cattle. (Preliminary notice.) By Howard Crawley, Expert in Protozoology, Zoological Division. Pp. 31, figs. 3. (Bulletin 119, Bureau of Animal Industry.) Price 5 cents.



Biological Investigations in Alaska and Yukon Territory. I. East Central Alaska. II. The Ogilvie Range, Yukon. III. The Macmillan River, Yukon. By Wilfred H. Osgood, Assistant, Biological Survey. Prepared under the direction of C. Hart Merriam, Chief, Biological Survey. Pp. 96, pls. 5, figs. 2. (North American Fauna No. 30, Bureau of Biological Survey.) Price 15 cents.

Hibernation of the Mexican Cotton Boll Weevil. By W. E. Hinds and W. W. Yothers, under the direction of W. D. Hunter. Pp. 100, pls. 10, figs. 9. (Bulletin 77, Bureau of Entomology.) Price 25 cents.

Practical Information on the Scolytid Beetles of North American Forests. I. Bark-beetles of the Genus *Dendroctonus*. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 169, pls. 2, figs. 102. (Bulletin 83, Part I, Bureau of Entomology.) Price 25 cents.

Experiment Station Record, Vol. XX. Subject Index. E. W. Allen, Ph. D., Editor. Pp. 1227-1341. Price 15 cents.

Same, Vol. XXI, No. 4, September, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 301-400. (No single copies of Vol. XXI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 8 numbers each, at \$1 per volume, payable in advance.

The Root-rot of Tobacco Caused by *Thielavia Basicola*. By W. W. Gilbert, Assistant Pathologist, Cotton and Truck Disease Investigations. Pp. 55, pls. 5. (Bulletin 158, Bureau of Plant Industry.) Price 15 cents.

Italian Lemons and Their By-products. I. The Italian Lemon Industry. By G. Harold Powell, Pomologist in Charge of Fruit Transportation and Storage Investigations. II. The By-products of the Lemon in Italy. By E. M. Chace, Assistant Chief of the Division of Foods, Bureau of Chemistry. Pp. 57, pls. 6, figs. 5. (Bulletin 160, Bureau of Plant Industry.) Price 15 cents.

A study of Crop Yields and Soil Composition in Relation to Soil Productivity. By Milton Whitney. Pp. 127, figs. 24. (Bulletin 57, Bureau of Soils.) Price 20 cents.

Imports of Farm and Forest Products, 1906-1908, by Countries from Which Consigned. Division of Production and Distribution. Pp. 65. (Bulletin 76, Bureau of Statistics.) Price 10 cents.

#### REPRINTS.

Bulletin 25, New Series. Division of Entomology. Notes on the Mosquitoes of the United States: Giving Some Account of Their Structure and Biology, with Remarks on Remedies. Price 10 cents.

Bulletin 80, Part IV. Bureau of Entomology. The Pear Thrips and its Control. Price 10 cents.

Bulletin 181, Office of Experiment Stations. Mechanical Tests of Pumping Plants in California. Price 15 cents.

Bulletin 203, Office of Experiment Stations. Distribution of Water in the Soil in Furrow Irrigation. Price 10 cents.

Bulletin 30, Office of Public Roads. The Corrosion of Iron. Price 10 cents.

#### CIRCULARS.

##### NEW.

Hog Raising in the South. Pp. 8, fig. 1. (Circular 30, Office of the Secretary.)

Misbranding of Canned Peaches, Plums, Pears, Apricots, and Beans (Underweight). Pp. 4. (Notice of Judgment Nos. 92-93, Office of the Secretary.)

Misbranding of Water (artificially lithiated), Canned Corn, Cereal, Canned Tomatoes; Adulteration and Misbranding of Syrup. Pp. 8. (Notice of Judgment Nos. 94-99, Office of the Secretary.)

Misbranding of Syrup and Adulteration of Oats. Pp. 4. (Notice of Judgment Nos. 100-101, Office of the Secretary.)

Shellfish. Pp. 2. (Food Inspection Decision 110, Office of the Secretary.)

Competitive Exhibitions of Milk and Cream, with Report of an Exhibition Held at Pittsburg, Pa., in Cooperation with the Pittsburg Chamber of Commerce. By C. B. Lane and Ivan C. Weld, of the Dairy Division. Pp. 36. (Circular 151, Bureau of Animal Industry.)

Directions for the Home Pasteurization of Milk. By L. A. Rogers, Bacteriologist, Dairy Division. Pp. 2. (Circular 152, Bureau of Animal Industry.)



Regulations for the Certification of Associations of Breeders of Purebred Live Stock and Books of Record of Pedigrees. Certification of Foreign Affiliated Associations. P. 1. (Amendment 8 to B. A. I. Order 136.)

*Same*, Withdrawal of Certification. P. 1. (Amendment 9 to B. A. I. Order 136.)

*Same*, Certification of Association. P. 1. (Amendment 10 to B. A. I. Order 136.)

*Same*, Certification of Various Associations. P. 1. (Amendment 11 to B. A. I. Order 136.)

Amendment to Regulation 9 of the Regulations for the Inspection and Quarantine of Horses, Cattle, Sheep, and Other Ruminants, and Swine Imported into the United States. P. 1. (Amendment 6 to B. A. I. Order 142.)

Amendment to Regulation 41. Providing for the Dipping or the Quarantine of Sheep Imported from Canada for Breeding, Grazing, or Feeding. Pp. 2. (Amendment 7 to B. A. I. Order 142.)

Amendment to Regulation 49. Providing for the Dipping Twice of Sheep Imported from Mexico for Breeding, Grazing, or Feeding. P. 1. (Amendment 8 to B. A. I. Order 142.)

Amendment 5 to Rule 1, Revision 4. To prevent the Spread of Splenic Fever in Cattle. Pp. 3. (Amendment 5 to B. A. I. Order 158)

Organization of the Bureau of Chemistry, revised to July 1, 1909. Pp. 29. (Circular 14, revised, Bureau of Chemistry.)

The Occurrence of Pinene in Lemon Oil. By E. M. Chace, Chief, Food Technology Laboratory, Division of Foods. Pp. 24, figs. 2. (Circular 46, Bureau of Chemistry.)

Control of the Mediterranean Flour Moth by Hydrocyanic-acid Gas Fumigation. By F. H. Chittenden, In Charge of Truck-crop and Stored-product Insect Investigations. Pp. 22, figs. 5. (Circular 112, Bureau of Entomology.)

Farmers' Institutes for Women. By John Hamilton, Farmers' Institute Specialist. Pp. 16. (Circular 85, Office of Experiment Stations.)

Organization, Work, and Publications of Irrigation Investigations. Pp. 12. (Circular 87, Office of Experiment Stations.)

Organization, Work, and Publications of Food and Nutrition Investigations. Pp. 18. (Circular 89, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during September, 1909. Pp. 5. (Document 1227, Office of Experiment Stations.)

The Decay of Cabbage in Storage: Its Cause and Prevention. By L. L. Harter, Assistant Pathologist, Cotton and Truck Disease Investigations. Pp. 8. (Circular 39, Bureau of Plant Industry.)

Publications of the United States Department of Agriculture and How They Are Distributed. Pp. 3. (Circular 6, Division of Publications.)

Monthly List of Publications, September, 1909. Pp. 4. (Document 675, Division of Publications.)

The Twenty-eight Hour Law. Pp. 5. (Circular 23, Office of the Solicitor.)

*Same*. Pp. 2. (Circular 24, Office of the Solicitor.)

Crop Reporter, Vol. 11, No. 10, October, 1909. Pp. 65-72. (Bureau of Statistics.)

The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 23, revised, Bureau of Animal Industry. Directions for the Use of Blackleg Vaccine.

Circular 71, Bureau of Animal Industry. Anthrax in Cattle, Horses and Men.

Circular 105, Bureau of Animal Industry. Baby Beef.

Circular 123, Bureau of Animal Industry. Instructions for Preparing and Shipping Pathological Specimens for Diagnosis.

Circular 132, Bureau of Animal Industry. A Practical Method of Detecting Beef Fat in Lard.

Order 143, Bureau of Animal Industry. Regulations of the Secretary of Agriculture Governing the Inspection, Disinfection, Certification, Treatment, Handling, and Method and Manner of Delivery and Shipment of Live Stock Which is the Subject of Interstate Commerce.

Circular 64, revised, Forest Service. Black Locust. (*Robinia pseudacacia*.)

Circular 3, Bureau of Plant Industry. Some Stem Tumors, or Knots, on Apple and Quince Trees.



- Circular 30, Bureau of Plant Industry. Improvement of the Oat Crop.  
 Circular 32, Bureau of Plant Industry. Moisture Content and Shrinkage in Grain.  
 Circular 33, Bureau of Plant Industry. The Necessity for New Standards of Hop Valuation.

## FARMERS' BULLETINS.

## NEW.

Drainage of Irrigated Lands. By Charles F. Brown, Drainage Engineer, Office of Experiment Stations. Pp. 52, figs. 19. (Farmers' Bulletin 371.)

This bulletin gives details of experiments in draining irrigated lands in several localities in Utah, with costs, results, etc., and supplements Farmers' Bulletin 187, entitled Drainage of Farm Lands.

Soy Beans. By C. V. Piper, Agrostologist in Charge, and H. T. Nielsen, Scientific Assistant, Forage Crop Investigations, Bureau of Plant Industry. Pp. 28, figs. 6. (Farmers' Bulletin 372.)

This bulletin has been prepared to supersede Farmers' Bulletin 58 on the same subject, and contains directions for the cultivation of the soy bean for hay, pasturage, ensilage, and in mixtures with other plants. Its possible value as a crop in the cotton belt and its use as a feed for sheep, dairy cows, and hogs are emphasized.

Experiment Station Work, LIII. (Compiled from the publications of the Agricultural Experiment Stations.) Pp. 32, figs. 5. (Farmers' Bulletin 374.)

Contents: Inoculation and lime for alfalfa—Citrus culture in southern Texas—Pruning rotundifolia grapes—Native hays of arid regions—Bermuda grass—Short vs. long feeding of beef cattle—Contagious abortion of cattle—Preventing losses at lambing time—Winter lambs for the Pacific coast market—Feeding work horses—Colony houses for poultry—Food of the crow blackbird—Flour for baking-powder biscuits.

Methods of Exterminating the Texas-fever Tick. By H. W. Graybill, Scientific Assistant, Bureau of Animal Industry. Pp. 32, figs. 15. (Farmers' Bulletin 378.)

This bulletin contains the life history of the Texas-fever tick and several methods of eradication, with directions for the preparation and application of dips.

## SEPARATES.

## NEW.

(From Annual Report of the Office of Experiment Stations for the year ended June 30, 1908.)

Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1908. Compiled by Miss M. T. Spethmann. Pp. 191–230. (O. E. S. Doc. 1217.)

The Farmers' Institutes in the United States, 1908. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. 289–335. (O. E. S. Doc. 1219.)

Animal Nutrition Problems in Relation to the Work of the Experiment Stations. By C. F. Langworthy, in Charge of Nutrition Investigations. Pp. 337–354. (O. E. S. Doc. 1220.)

Review of Ten Years of Irrigation Investigations. By R. P. Teele, Editorial Assistant, Irrigation Investigations. Pp. 355–405. (O. E. S. Doc. 1221.)

The Alluvial Lands of the Lower Mississippi Valley and their Drainage. By Arthur E. Morgan, Supervising Drainage Engineer. Pp. 407–417, pls. 2, figs. 2. (O. E. S. Doc. 1222.)

## REPRINTS.

(From Yearbooks, Department of Agriculture.)

Separate 204, Yearbook, 1900. The Selection of Materials for Macadam Roads.

Separate 328, Yearbook, 1903. Determination of Effect of Preservatives in Foods on Health and Digestion.

Separate 331, Yearbook, 1903. The Adulteration of Drugs.

## PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVII, No. 5, May, 1909. Pp. 173–219, charts 7, figs. 25. Price 20 cents; \$2.50 per year.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Tuesday in October. (Nos. 25, 26, 27, 28.) Price 25 cents per year.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:

JAMES WILSON,  
*Secretary of Agriculture.*



This circular will be sent regularly to all who apply for it.

No. 692.

# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1909.

### MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1909.]

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#### ADVANCE SHEETS, SOIL SURVEY, 1908.

Soil Survey of the Portersville Area, California. By A. T. Strahorn, L. C. Holmes, and C. W. Mann. Pp. 40, fig. 1, map.

#### BULLETINS.

##### NEW.

Index-catalogue of Medical and Veterinary Zoology. (Authors: Roack to von Rzewuski.) By Ch. Wardell Stiles, Consulting Zoologist of the Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. 1895-1979. (Bulletin 39, Part 25, Bureau of Animal Industry.) Price 10 cents.

The Need of Controlling and Standardizing the Manufacture of Veterinary Tetanus Antitoxin. By John R. Mohler, Chief of the Pathological Division, and Adolph Eichorn, Bacteriologist in the Pathological Division. Pp. 22. (Bulletin 121, Bureau of Animal Industry.) Price 5 cents.

The Influence of Environment on the Composition of Sweet Corn, 1905-1908. By M. N. Straugin and C. G. Church, Assistant Chemists, Sugar Laboratory, under the direction of H. W. Wiley, Chief, Bureau of Chemistry. Pp. 69, figs. 11. (Bulletin 127, Bureau of Chemistry.) Price 10 cents.

Enological Studies. I. Experiments in Cider Making Applicable to Farm Conditions. II. Notes on the Use of Pure Yeasts in Wine Making. By William B. Alwood, Enological Chemist. Pp. 32, fig. 1. (Bulletin 129, Bureau of Chemistry.) Price 5 cents.

The Southern Pine Sawyer. By J. L. Webb, Agent and Expert. Pp. 41-56, figs. 12. (Bulletin 58, Part 4, Bureau of Entomology.) Price 5 cents.

Papers on Deciduous Fruit Insects and Insecticides. I. The Pear Thrips. By Dudley Moulton, Engaged in Deciduous Fruit Insect Investigations. II. The Spring Canker-worm. By A. L. Quaintance, In Charge of Deciduous Fruit Insect Investigations. III. The Trumpet Leaf-miner of the Apple. By A. L. Quaintance. IV. The Lesser Peach Borer. By A. A. Girault, Engaged in Deciduous Fruit Insect Investigations. V. The Lesser Apple Worm. By A. L. Quaintance. VI. Grape Root-worm Investigations in 1907. By Fred Johnson, Engaged in Deciduous Fruit Insect Investigations. VII. Demonstration Spraying for the Codling Moth. By A. L. Quaintance, S. W. Foster, Fred Johnson, and A. A. Girault. VIII. The Grape-leaf Skeletonizer. By P. R. Jones, Engaged in Deciduous Fruit Insect Investigations. IX. The Peach-tree Barkbeetle. By H. F. Wilson, Engaged in Deciduous Fruit Insect Investigations. Pp. 117, pls. 11, figs. 20. (Bulletin 68, Bureau of Entomology.) Price 25 cents.



The Parsnip Leaf-miner. The Parsley Stalk Weevil. The Celery Caterpillar. By F. H. Chittenden, In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 9-24, figs. 6. (Bulletin 82, Part 2, Bureau of Entomology.) Price 5 cents.

The Lesser Clover-leaf Weevil. By F. M. Webster, In Charge of Cereal and Forage Insect Investigations. Pp. 1-12, figs. 8. (Bulletin 85, Part 1, Bureau of Entomology.) Price 5 cents.

The Slender Seed-corn Ground-beetle. By W. J. Phillips, Agent and Expert. Pp. 13-28, figs. 6. (Bulletin 85, Part 2, Bureau of Entomology.) Price 5 cents.

Secondary Agricultural Education in Alabama. By C. J. Owens, President of Southeast Alabama Agricultural School, Abbeville. Pp. 30, pls. 8. (Bulletin 220, Office of Experiment Stations.) Price 10 cents.

Experiment Station Record, Vol. XXI, No. 5, October, 1909. E. W. Allen, Ph. D., Editor. Pp. ix, 401-500.

Same, Vol. XXI, No. 6, November, 1909. Pp. ix, 501-600. (No single copies of Vol. XXI sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

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How to Grow and Plant Conifers in the Northeastern States. By C. R. Pettis, Expert in Planting. Pp. 36, pls. 4, diagrams 4. (Bulletin 76, Forest Service.) Price 10 cents.

Wood Preservation in the United States. By W. F. Sherfese, In Charge of Wood Preservation. Pp. 31, pls. 4, figs. 3. (Bulletin 78, Forest Service.) Price 10 cents.

Accessions to the Department Library. July-September, 1909. Pp. 63. (Bulletin 73, Library.) Price 10 cents.

Farm Water Supplies of Minnesota. By Karl F. Kellerman, Physiologist in Charge of Water Purification Investigations, and H. A. Whittaker, Scientific Assistant, Water Purification Investigations, in Cooperation with the Minnesota State Board of Health. Pp. 87, figs. 73. (Bulletin 154, Bureau of Plant Industry.) Price 15 cents.

#### REPRINT.

Bulletin 82, Part 1, Bureau of Entomology. The Colorado Potato Beetle in Virginia in 1908. Price 5 cents.

#### CIRCULARS.

##### NEW.

Notice of Judgment Nos. 102-110, Food and Drugs Act. 102. Misbranding of Distiller's Dried Grains. 103. Adulteration of Eggs. 104. Adulteration and Misbranding of Stock Feed. 105. Adulteration and Misbranding of a Cereal. 106. Misbranding of Cane Sirup. 107. Misbranding of Vermont Maple Sugar. 108. Misbranding of Preserves. 109. Adulteration and Misbranding of Cottonseed Meal. 110. Misbranding of Sirup. Pp. 20. (Office of the Secretary.)

Notice of Judgment 111, Food and Drugs Act. Misbranding of Catsup. Pp. 2. (Office of the Secretary.)

Diseases of the Stomach and Bowels of Cattle. By A. J. Murray. Pp. 14. (Circular 68, revised, Bureau of Animal Industry.)

Importation of Hay and Straw from Belgium and Denmark. P. 1. (Amendment 3 to B. A. I. Order 129.)

Amendment to Regulation 49, Providing for the Dipping Twice of Sheep Imported from Mexico for Breeding, Grazing, or Feeding. P. 1. (Amendment 8 to B. A. I. Order 142.)

Rule 8, Revision 1.—To Prevent the Spread of Lip-and-leg Ulceration (Necrobacillosis) in Sheep. Pp. 4. (B. A. I. Order 165.)

Officials Charged with the Enforcement of Food Laws in the United States and Canada. (Revised to July 1, 1909.) Pp. 37. (Circular 16, revised, Bureau of Chemistry.)

The Hydrolysis of Salicin by the Enzym Emulsin. By C. S. Hudson and H. S. Paine, Assistant Chemists. Pp. 8, figs. 2. (Circular 47, Bureau of Chemistry.)



**The Chinch Bug.** (*Blissus leucopterus* Say.) By F. M. Webster, In Charge of Cereal and Forage Insect Investigations. Pp. 27, figs. 8. (Circular 113, Bureau of Entomology.)

**The Euonymus Scale.** (*Chionaspis euonymi* Comstock.) By J. G. Sanders, Bureau of Entomology. Pp. 5, figs. 2. (Circular 114, Bureau of Entomology.)

**The Card Index of Experiment Station Literature.** Pp. 2. (Circular 47, revised, Office of Experiment Stations.)

**A Preliminary Report on the St. Francis Valley Drainage Project in Northeastern Arkansas.** Prepared by Arthur E. Morgan, Supervising Drainage Engineer, under the direction of C. G. Elliott, Chief of Drainage Investigations. Pp. 31, figs. 3. (Circular 86, Office of Experiment Stations.)

**Secondary Education in Agriculture in the United States.** Pp. 11. (Circular 91, Office of Experiment Stations.)

**Commercial Importance of the White Mountain Forests.** By Philip W. Ayres, Forester of the Society for the Protection of New Hampshire Forests. Pp. 32, map. (Circular 168, Forest Service.)

**A Simple Method of Detecting Sulphured Barley and Oats.** By W. P. Carroll, Assistant in Charge of the Chicago Grain Standardization Laboratory. Pp. 8, figs. 3. (Circular 40, Bureau of Plant Industry.)

**Publications for Free Distribution.** (Revised to October 15, 1909.) Pp. 49. (Circular 2, Division of Publications.)

**Publications for Sale.** (Revised to October 1, 1909.) Pp. 85. (Circular 3, Division of Publications.)

**Monthly List of Publications, October, 1909.** Pp. 4. (Document 677, Division of Publications.)

**Index and Contents, Farmers' Bulletins Nos. 326-350.** Pp. vii, 1-30. (Division of Publications.)

**The Twenty-eight Hour Law.** Pp. 3. (Circular 25, Office of the Solicitor.)

*Same*, pp. 2. (Circular 26, Office of the Solicitor.)

**Tobacco Districts and Types.** By J. P. Killebrew, Special Agent on Tobacco, Bureau of Statistics. Pp. 16. (Circular 18, Bureau of Statistics.)

**Crop Reporter, Vol. 11, No. 11, November, 1909.** Pp. 73-80. (Bureau of Statistics.)

A two-column quarto publication devoted to agricultural statistics.

#### REPRINTS.

Circular 30, Office of the Secretary. Hog Raising in the South.

Circular 124, Bureau of Animal Industry. Suggestions for Horse and Mule Raising in the South.

Circular 143, Bureau of Animal Industry. Milk and Its Products as Carriers of Tuberculosis Infection.

Circular 92, Bureau of Entomology. Mites and Lice on Poultry.

<sup>a</sup> Circular 84, Office of Experiment Stations. Education for Country Life; price 5 cents.

Circular 117, Forest Service. The Preservative Treatment of Fence Posts.

Circular 159, Forest Service. The Future Use of Land in the United States.

Circular 12, Bureau of Plant Industry. Dry-land Grains.

Circular 90, Office of Public Roads. Progress Reports of Experiments in Dust Prevention, Road Preservation, and Road Construction.

#### FARMERS' BULLETINS.

##### NEW.

**Irrigation of Alfalfa.** By Samuel Fortier, Chief of Irrigation Investigations, Office of Experiment Stations. Pp. 48, figs. 32. (Farmers' Bulletin 373.)

This bulletin describes the lands best adapted to alfalfa growing in the semiarid West, and contains directions for the removal of native vegetation, methods of irrigating the crop, implements used, seeding with and without a nurse crop, the production of seed, etc., with an estimate of expenses and profits of the crop.

**Care of Food in the Home.** By Mrs. Mary Hinman Abel. Prepared under the Supervision of the Office of Experiment Stations. Pp. 48, figs. 2. (Farmers' Bulletin 375.)

In this bulletin the author discusses yeasts, molds, and the spoiling of foods, flies, dust, and pet animals in relation to food; the sanitation of markets and bakeries; the quality of meats and vegetables; the storing and keeping of raw and cooked foods; suggestions for washing food products; dishwashing; care of the kitchen, etc.

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**Game Laws for 1909.** By T. S. Palmer, Henry Oldys, and C. E. Brewster, Assistants, Biological Survey. Pp. 56, figs. 2. (Farmers' Bulletin 376.)

A summary of the provisions relating to seasons, shipments, sale, limits, licenses, etc., for game in the United States and Canada, with an appendix showing open seasons under the county laws of several States. This bulletin supersedes Farmers' Bulletin 336.

**Hog Cholera.** By M. Dorset, Chief, Biochemic Division, Bureau of Animal Industry. Pp. 25, figs. 3. (Farmers' Bulletin 379.)

This bulletin is intended to supersede Farmers' Bulletin 24 on the same subject, and contains information as to the cause and symptoms of hog cholera, describes diseases which may be mistaken for hog cholera, and gives directions for the prevention and treatment of the disease by the use of serum.

**The Loco-weed Disease.** By C. Dwight Marsh, Expert, Poisonous-plant Investigations, Bureau of Plant Industry. Pp. 16, figs. 4. (Farmers' Bulletin 380.)

This bulletin describes the plants known as loco weeds, the manner and symptoms of poisoning of horses, cattle, and sheep, and the post-mortem appearances of poisoned animals. It contains directions for the treatment of affected animals, destruction of the weeds, etc.

**Experiment Station Work, LIV.** (Compiled from the publications of the agricultural experiment stations.) Pp. 32, figs. 9. (Farmers' Bulletin 381.)

CONTENTS: Methods and cost of clearing land—Tobacco improvement work—Calf feeding—Gasoline-heated colony brooders—Measuring acidity in cheese making and butter making.

#### SEPARATES.

##### NEW.

(From Annual Report of the Office of Experiment Stations, 1908.)

**Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1908.** By E. W. Allen. Pp. 55-190, pls. 7, figs. 2. (O. E. S. Doc. 1216.)

**Progress in Agricultural Education, 1908.** By Dick J. Crosby, Specialist in Agricultural Education, Office of Experiment Stations. Pp. 231-288, pls. 5. (O. E. S. Doc. 1218.)

##### REPRINTS.

(From Yearbooks of the Department of Agriculture.)

233, Yearbook, 1901. Some Problems of the Rural Common School.

320, Yearbook, 1903. Relation of Sugar Beets to General Farming.

340, Yearbook, 1904. Opportunities in Agriculture.

360, Yearbook, 1904. The Annual Loss Occasioned by Destructive Insects in the United States.

434, Yearbook, 1906. National Forests and the Lumber Supply.

460, Yearbook, 1907. The Codling Moth or Apple Worm.

475, Yearbook, 1908. The Wastes of the Farm.

480, Yearbook, 1908. Information about Spraying for Orchard Insects.

481, Yearbook, 1908. The So-called Change of Climate in the Semiarid West.

483, Yearbook, 1908. The Causes of Southern Rural Conditions and the Small Farm as an Important Remedy.

485, Yearbook, 1908. The Manufacture of Flavoring Extracts.

487, Yearbook, 1908. Types of Farming in the United States.

489, Yearbook, 1908. Plant Food Removed from Growing Plants by Rain or Dew.

492, Yearbook, 1908. Instruments for Making Weather Observations on the Farm.

495, Yearbook, 1908. Soil Mulches for Checking Evaporation.

#### PUBLICATIONS OF THE WEATHER BUREAU.

**Bulletin of the Mount Weather Observatory.** Vol. 2, Part 2. Prepared under the direction of Willis L. Moore, Chief of U. S. Weather Bureau. Pp. 55-108, charts 6. (W. B. No. 412.) Price — cents.

**Monthly Weather Review,** Vol. XXXVII, No. 6, June, 1909. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 221-263, figs. 14, charts 6. (W. B. No. 416.) Price 20 cents; \$2.50 per year.

**National Monthly Weather Bulletin for October, 1909,** reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 26. Price 25 cents per year.

Approved:

JAMES WILSON,

*Secretary of Agriculture.*

JOS. A. ARNOLD,

*Editor and Chief.*



No. 697.

This circular will be sent regularly to all who apply for it.

## United States Department of Agriculture,

### DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *December 31, 1909.*

## MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1909.]

NOTE.—To obtain those publications to which a price is affixed application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

**THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.**

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

### ADVANCE SHEETS, SOIL SURVEY, 1908.

Soil Survey of the Modesto-Turlock Area, California, with a Brief Report on a Reconnaissance Soil Survey of the Region East of the Area. By A. T. Sweet, J. F. Warner, and L. C. Holmes. Pp. 70, pl. 1, figs. 2, map.

Soil Survey of Bienville Parish, Louisiana. By Thomas A. Caine, E. B. Watson, Thomas D. Rice, W. J. Geib, W. S. Lyman, and H. L. Belden. Pp. 36, fig. 1, map.

Soil Survey of Montgomery County, New York. By Ora Lee, jr., assisted by Clarence Lounsbury, of the New York State College of Agriculture. Pp. 42, fig. 1, map.

Soil Survey of Richland County, North Dakota. By Frank Bennett, E. L. Worthen, Rex E. Willard, and E. B. Watson. Pp. 38, fig. 1, map.

### REPORTS.

#### NEW.

Report of the Secretary of Agriculture. 1909. Pp. 169.

Report of the Chief of the Division of Accounts and Disbursements for 1909. By A. Zappone. Pp. 42.

Report of the Chief of the Bureau of Animal Industry for 1909. By A. D. Melvin. Pp. 69.

Report of the Appointment Clerk for 1909. By J. B. Bennett. Pp. 28.

Report of the Chief of the Bureau of Biological Survey for 1909. By C. Hart Merriam. Pp. 23.

Report of the Chemist for 1909. By H. W. Wiley. Pp. 61.

Report of the Editor for 1909. By Jos. A. Arnold. Pp. 66.

Report of the Entomologist for 1909. By L. O. Howard. Pp. 45.

Report of the Director of the Office of Experiment Stations for 1909. By A. C. True. Pp. 31.

Report of the Librarian for 1909. By Claribel R. Barnett. Pp. 16.

Report of the Chief of the Bureau of Plant Industry for 1909. By B. T. Galloway. Pp. 118.



- Report of the Director of the Office of Public Roads for 1909. By Logan Waller Page. Pp. 30.
- Report of the Chief of the Bureau of Soils for 1909. By Milton Whitney. Pp. 20.
- Report of the Solicitor for 1909. By Geo. P. McCabe. Pp. 55.
- Report of the Chief of the Bureau of Statistics for 1909. By Victor H. Olmsted. Pp. 16.
- Report of the Chief of the Weather Bureau for 1909. By Willis L. Moore. Pp. 43.

## BULLETINS.

## NEW.

- Catalogue of Recently Described Coccidæ—II. By J. G. Sanders, Assistant. Pp. 33-60. (Bulletin 16, Part 3, Bureau of Entomology.) Price 5 cents.
- Insect Depredations in North American Forests and Practical Methods of Prevention and Control. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 57-101. (Bulletin 58, Part 5, Bureau of Entomology.) Price 10 cents.
- The Lima-bean Pod Borer. The Yellow-necked Flea-beetle. By F. H. Chittenden, in Charge of Truck Crop and Stored Product Insect Investigations. Pp. 25-32, fig. 1. (Bulletin 82, Part 3, Bureau of Entomology.) Price 5 cents.
- Dietary Studies in Rural Regions in Vermont, Tennessee, and Georgia. By J. L. Hills, Director of Vermont Experiment Station; Charles E. Wait, Professor of Chemistry, University of Tennessee; and H. C. White, Professor of Chemistry, University of Georgia. Pp. 142, pls. 4. (Bulletin 221, Office of Experiment Stations.) Price 25 cents.
- Experiment Station Record, Vol. XXI, No. 7, December, 1909. Pp. x, 601-700. Price 15 cents.
- Same*, Vol. XXI, No. 8, Abstract-Number. Pp. x, 701-800. Price 15 cents.

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price of this serial, which is now issued in two volumes a year, 8 numbers each, at \$1 per volume, payable in advance. Current numbers are not sold separately.

- List of Periodicals Currently Received in the Library of the U. S. Department of Agriculture. Pp. 72. (Bulletin 75, Library.) Price 10 cents.
- A New Type of Indian Corn from China. By G. N. Collins, Assistant Botanist. Pp. 30, pls. 2. (Bulletin 161, Bureau of Plant Industry.) Price 10 cents.
- Seeds and Plants Imported during the Period from January 1 to March 31, 1909; Inventory No. 18; Nos. 24430 to 25191. Pp. 73. (Bulletin 162, Bureau of Plant Industry.) Price 10 cents.
- Application of Some of the Principles of Heredity to Plant Breeding. By W. J. Spillman, Agriculturist in Charge of the Office of Farm Management. Pp. 74, figs. 6. (Bulletin 165, Bureau of Plant Industry.) Price 10 cents.
- Seeds and Plants Imported during the Period from April 1 to June 30, 1909; Inventory No. 19; Nos. 25192 to 25717. Pp. 45. (Bulletin 168, Bureau of Plant Industry.) Price 5 cents.
- Foreign Trade of the United States in Forest Products. 1851-1908. Pp. 32. (Bulletin 51, Bureau of Statistics.) Price 5 cents.

## REPRINTS.

- Bulletin 17, Division of Biological Survey. Birds of a Maryland Farm. Price 15 cents.
- Bulletin 118, Bureau of Chemistry. Unfermented Apple Juice. Price 5 cents.
- Bulletin 126, Bureau of Chemistry. The Harmful Effects of Acetanilid, Antipyrin, and Phenacetin. Price 10 cents.
- Bulletin 17, Part 1, Technical Series, Bureau of Entomology. The Genus *Dendroctonus*. Price 25 cents.
- Bulletin 213, Office of Experiment Stations. Proceedings of the Thirteenth Annual Meeting of the American Association of Farmers' Institute Workers, Held at Washington, D. C., November 16-17, 1908. Price 10 cents.
- Bulletin 62, Bureau of Soils. Fertilizers for Cotton Soils. Price 5 cents.



## CIRCULARS.

## NEW.

- Notice of Judgment Nos. 112-116, Food and Drugs Act. 112—Misbranding of a Drug Product. 113—Misbranding of Flour. 114—Misbranding of Canned Apricots. 115—Adulteration and Misbranding of Lemon Extract. 116—Adulteration and Misbranding of Stock Feed. Pp. 9. (Office of the Secretary.)
- Notice of Judgment Nos. 117-118, Food and Drugs Act. 117—Adulteration and Misbranding of Stock Feed. 118—Adulteration and Misbranding of Buckwheat Flour. Pp. 3. (Office of the Secretary.)
- Notice of Judgment Nos. 119-122, Food and Drugs Act. 119—Adulteration and Misbranding of Stock Feed. 120—Adulteration and Misbranding of Pepper. 121—Misbranding of Mineral Water. 122—Adulteration and Misbranding of Strawberry Extract. Pp. 7. (Office of the Secretary.)
- Amendment 9 to B. A. I. Order 142. Amendment to Regulation 1, Designating Rio Grande City and Edinburg, Tex., as Ports for the Entry of Animals Which are Subject to Both Inspection and Quarantine. P. 1. (Bureau of Animal Industry.)
- Rule 1, Revision 5, to B. A. I. Order 166. To prevent the Spread of Splenetic Fever in Cattle. Pp. 10. (Bureau of Animal Industry.)
- Normal School Instruction in Agriculture. By M. J. Abbey, Professor of Biology, State Normal School, Mayville, N. Dak. Pp. 31. (Circular 90, Office of Experiment Stations.)
- List of State Directors of Farmers' Institutes and Farmers' Institute Lecturers of the United States. Pp. 14. (Circular 51, revised, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during November, 1909. Pp. 5. (Document 1241, Office of Experiment Stations.)
- The Forests of the United States: Their Use. By Overton W. Price, Associate Forester, and R. S. Kellogg and W. T. Cox, Assistant Foresters. Pp. 25. (Circular 171, Forest Service.)
- Methods of Increasing Forest Productivity. By E. E. Carter, Assistant Forester. Pp. 16. (Circular 172, Forest Service.)
- The South African Pine Calabash. By David Fairchild, Agricultural Explorer, and G. N. Collins, Assistant Botanist. Pp. 9, pls. 2. (Circular 41, Bureau of Plant Industry.)
- Origin of the Hindi Cotton. By O. F. Cook. Pp. 12, figs. 2. (Circular 42, Bureau of Plant Industry.)
- The Deterioration of Corn in Storage. By J. W. T. Duvel, Assistant in Charge of Laboratory Methods, Grain Standardization. Pp. 12, figs. 3. (Circular 43, Bureau of Plant Industry.)
- The Limitation of the Satsuma Orange to Trifoliolate-orange stock. By Walter T. Swingle, Physiologist in Charge of Crop Physiology and Breeding Investigations. (Circular 46, Bureau of Plant Industry.)
- Monthly List of Publications, November, 1909. Pp. 4. (Document 692, Division of Publications.)
- Crop Reporter, Vol. 11, No. 12, December, 1909. Pp. 81-88. (Bureau of Statistics.)
- Same, Supplement. Pp. 89-96. (Bureau of Statistics.)
- The Crop Reporter is a two-column quarto publication devoted to agricultural statistics.

## REPRINTS.

- Circular 30, Office of the Secretary. Hog Raising in the South.
- Circular 31, revised, Bureau of Animal Industry. Blackleg: Its Nature, Cause, and Prevention.
- Circular 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.
- Circular 103, Bureau of Animal Industry. Records of Dairy Cows: Their Value and Importance in Economic Milk Production.
- Circular 125, Bureau of Animal Industry. The Federal Meat-inspection Service.
- Circular 54, Division of Entomology. The Peach-tree Borer.
- Circular 75, Bureau of Entomology. Requirements to be Complied with by Nurserymen or Others Who Make Interstate Shipments of Nursery Stock.



- Circular 103, Bureau of Entomology. The Harlequin Cabbage Bug.  
 Circular 142, Forest Service. Tests of Vehicle and Implement Woods.  
 Circular 148, Forest Service. Practical Results in Basket Willow Culture.  
 Circular 169, Forest Service. Natural Revegetation of Depleted Mountain Grazing Lands.  
 Circular 6, Division of Publications. Publications of the United States Department of Agriculture and How They are Distributed.

#### FARMERS' BULLETIN.

##### NEW.

The Adulteration of Forage-plant Seeds. By F. H. Hillman, Assistant Botanist, Seed Laboratory, Bureau of Plant Industry. Pp. 23, figs. 19. (Farmers' Bulletin 382.)

This Bulletin explains the nature and forms of adulteration of seeds, the results of such adulteration, and describes the kinds of forage-plant seeds commonly adulterated and the seeds used as adulterants.

##### SEPARATES.

##### REPRINTS.

- Separate 197, Yearbook, 1900. How Birds Affect the Orchard.  
 Separate 293, Yearbook, 1902. Cultivation and Fertilization of Peach Orchards.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXVII, No. 7, July, 1909. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 265-410, figs. 7, maps 25, charts 7. (W. B. No. 417.) Price 20 cents.

National Monthly Weather Bulletin for November, 1909, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. No. 27. Price 25 cents a year.

Snow and Ice Bulletins for December 7, 14, 21, and 28. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers.

JOS. A. ARNOLD,  
*Editor and Chief.*

Approved:  
 JAMES WILSON,  
*Secretary of Agriculture.*

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